

FIG. !

U.S. Patent

FIG. 6

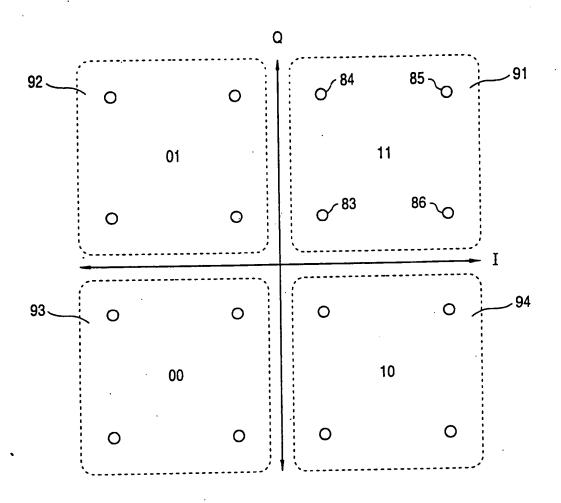
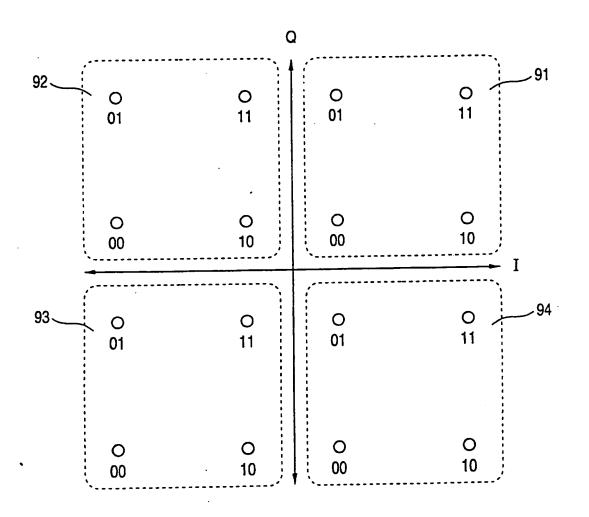


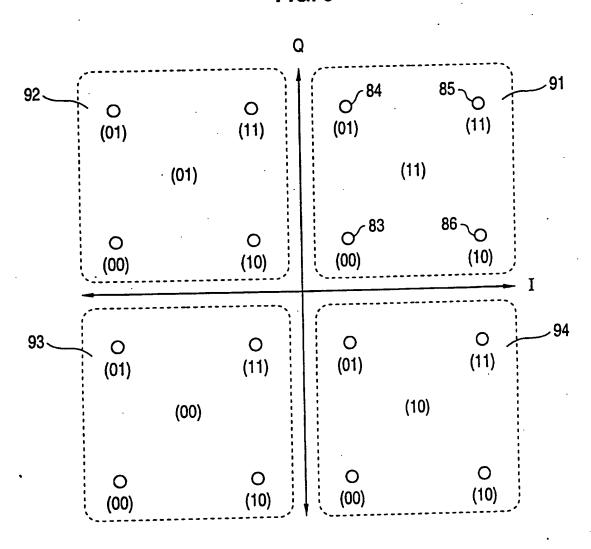
FIG. 7

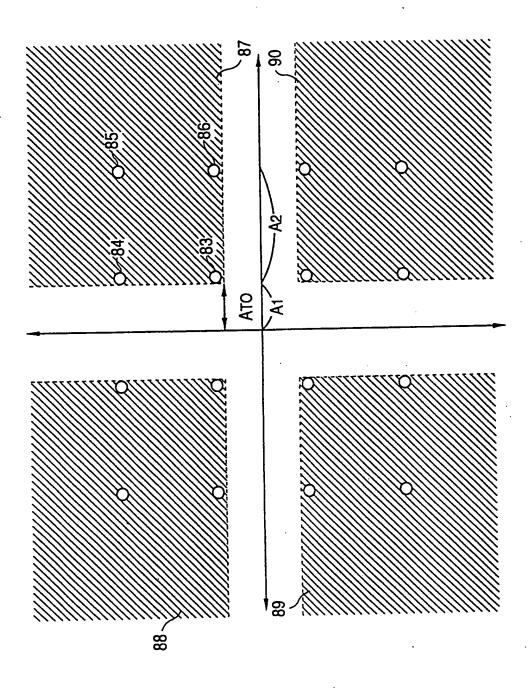


U.S. Patent

FIG. 8

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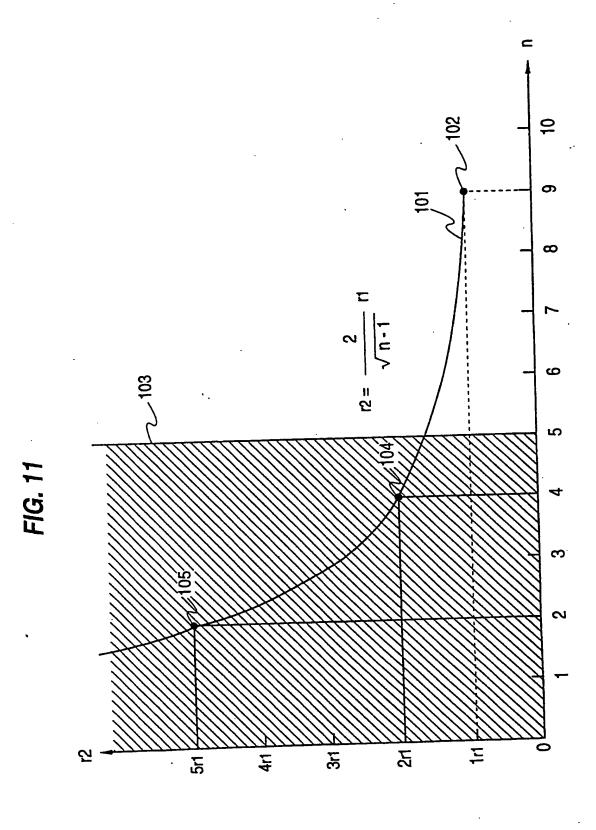




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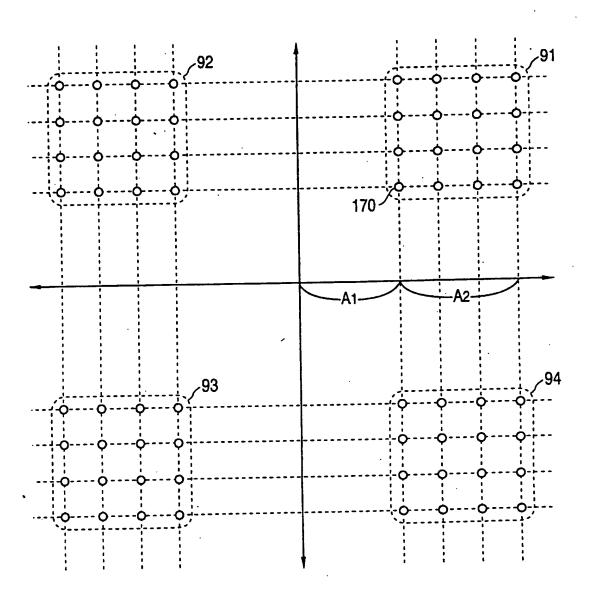
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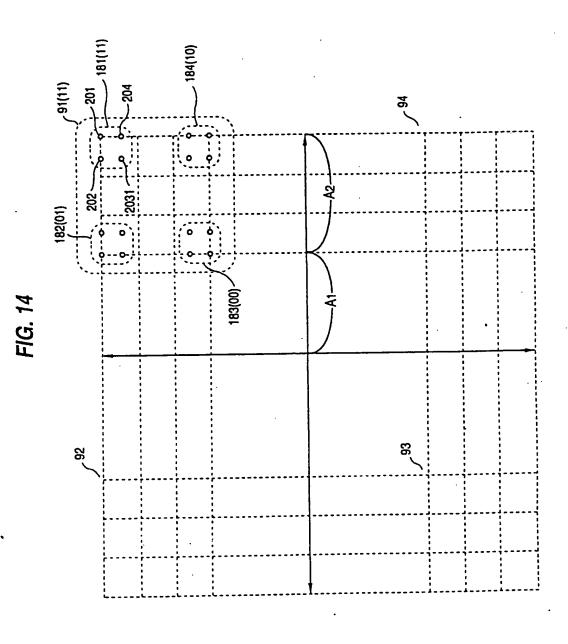




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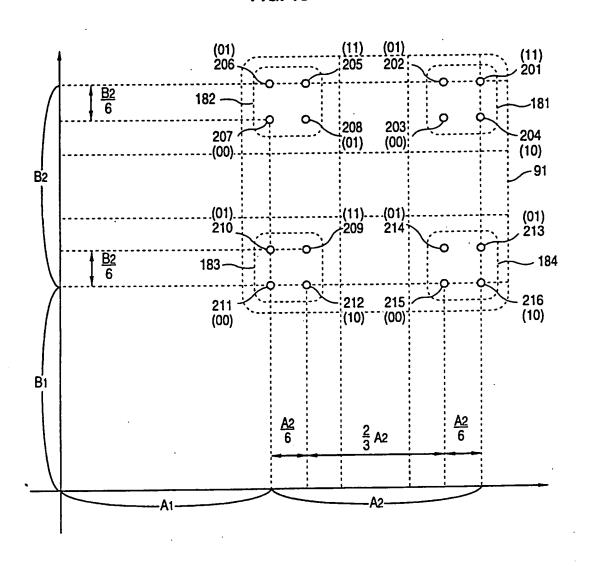
FIG. 12



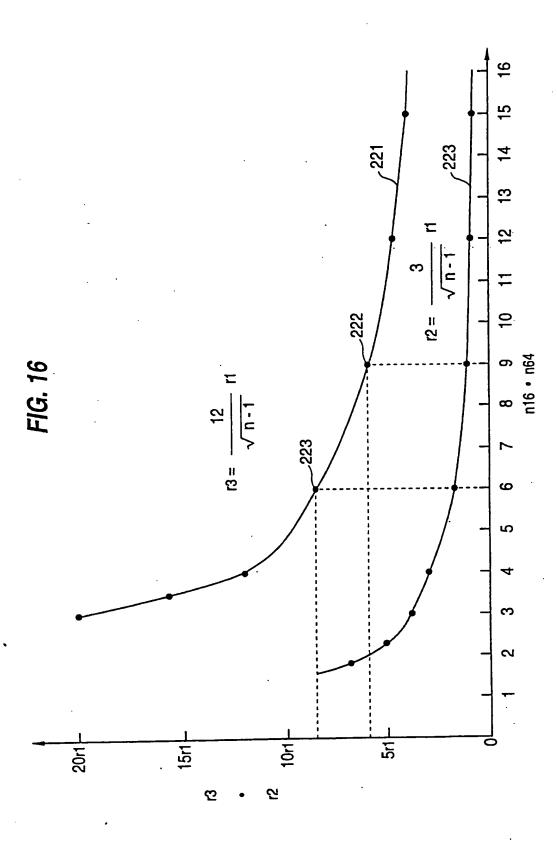


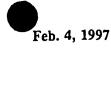
U.S. Patent

FIG. 15









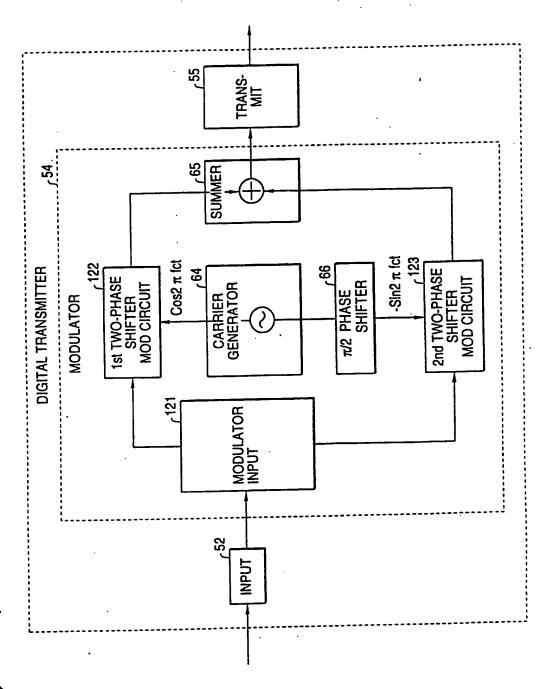
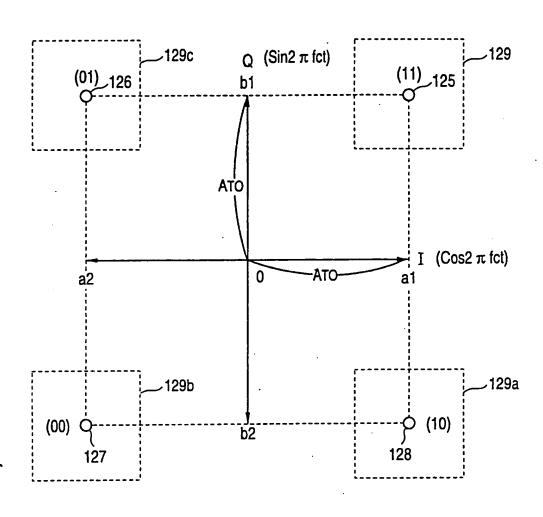
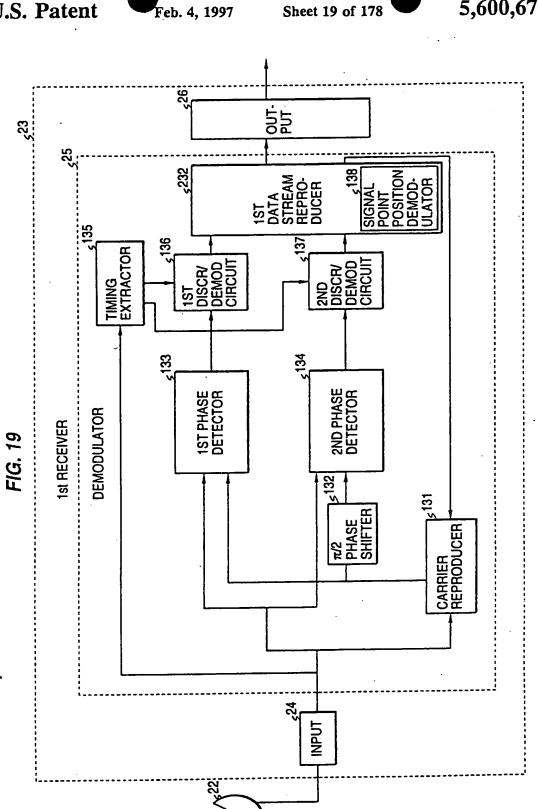


FIG. 17

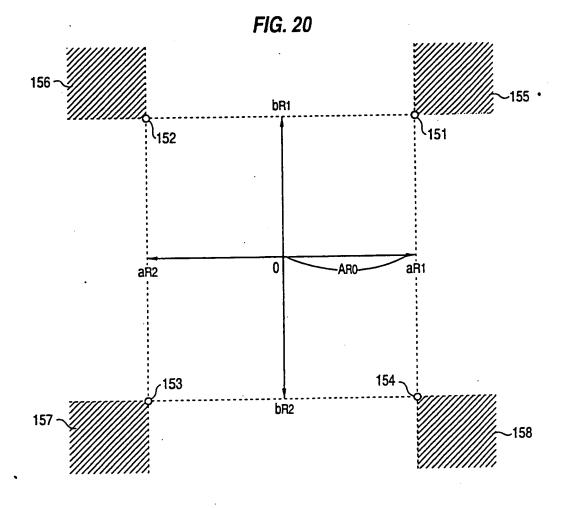
Feb. 4, 1997

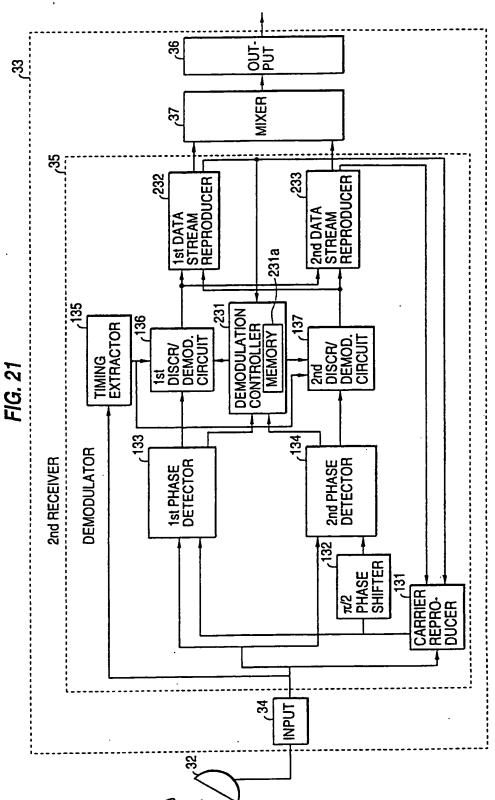
FIG. 18









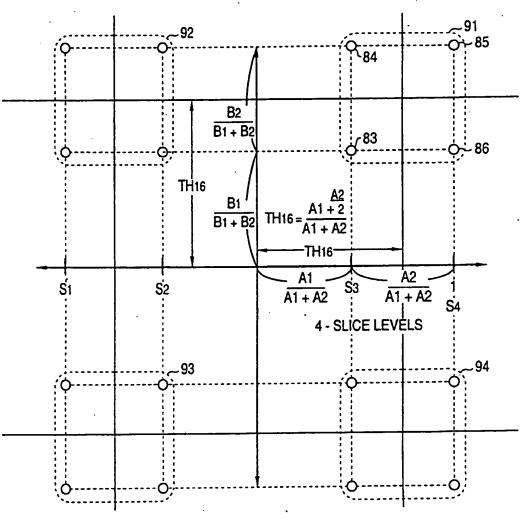


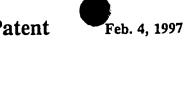
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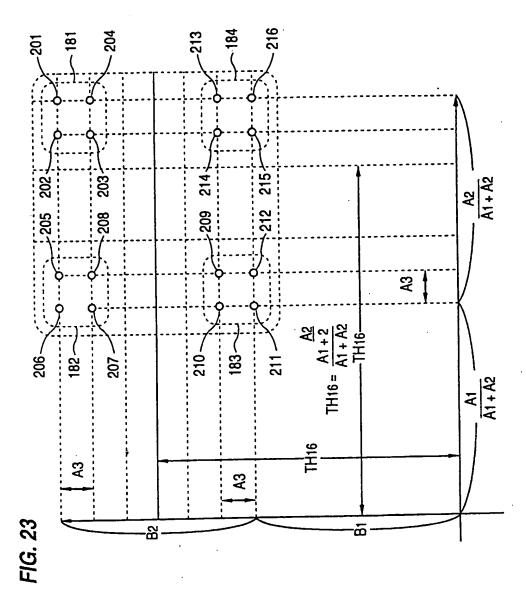
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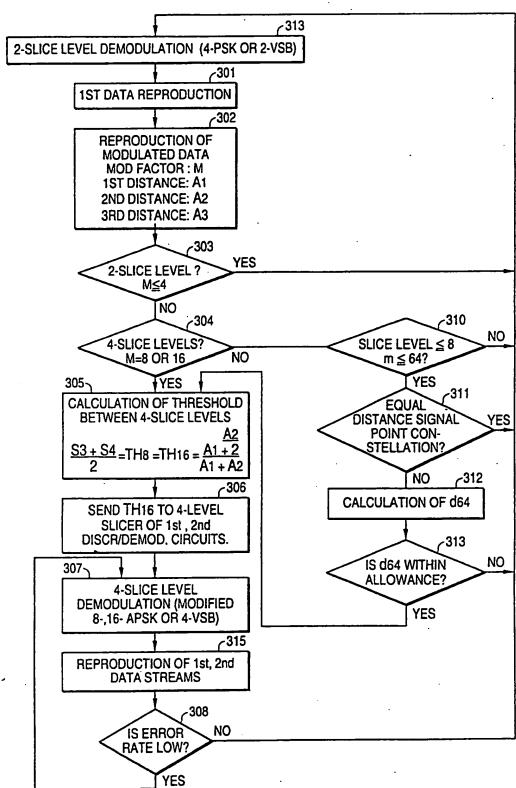


FIG. 25(a)

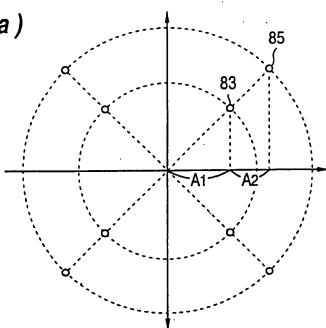
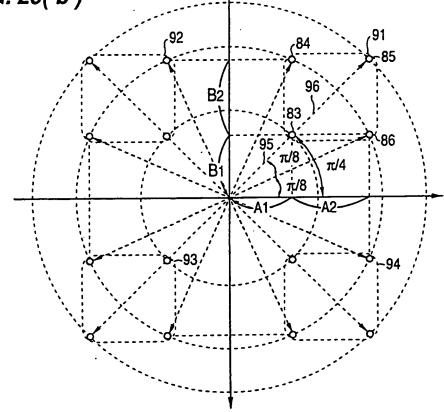


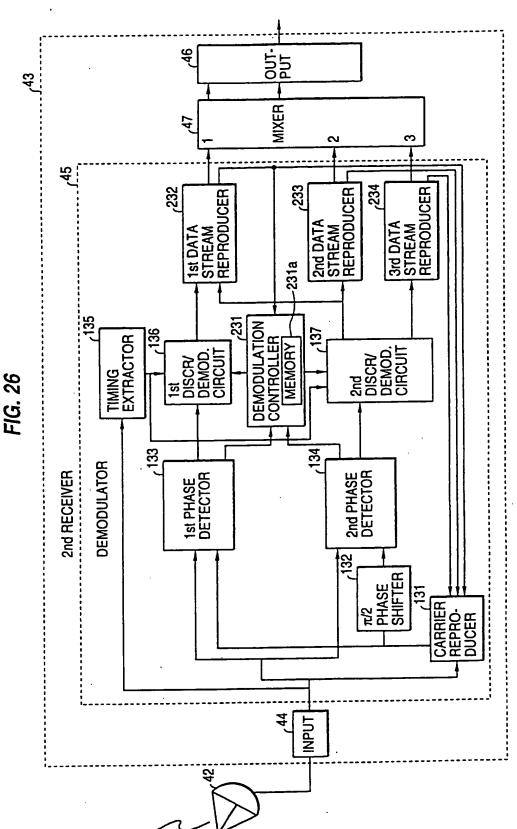
FIG. 25(b)

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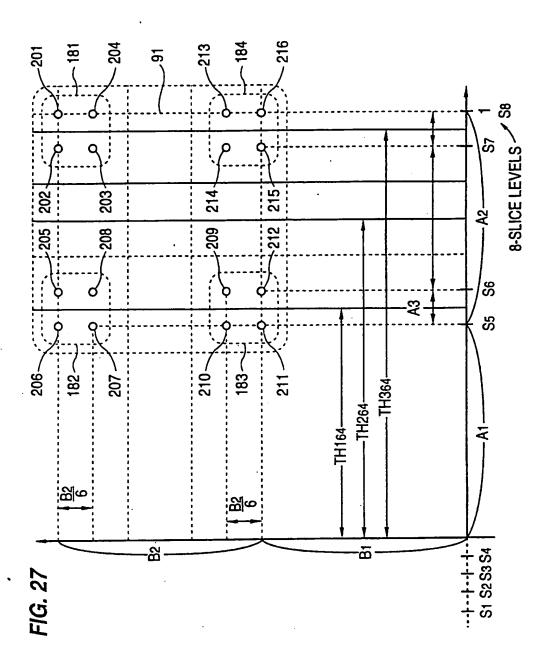
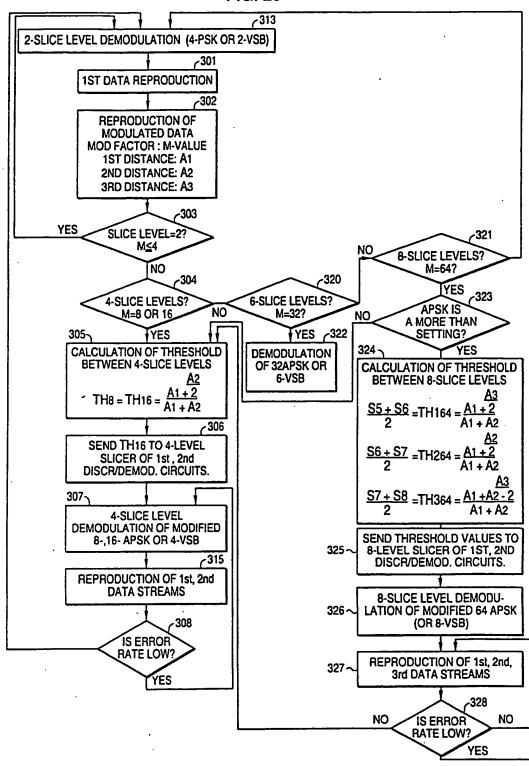
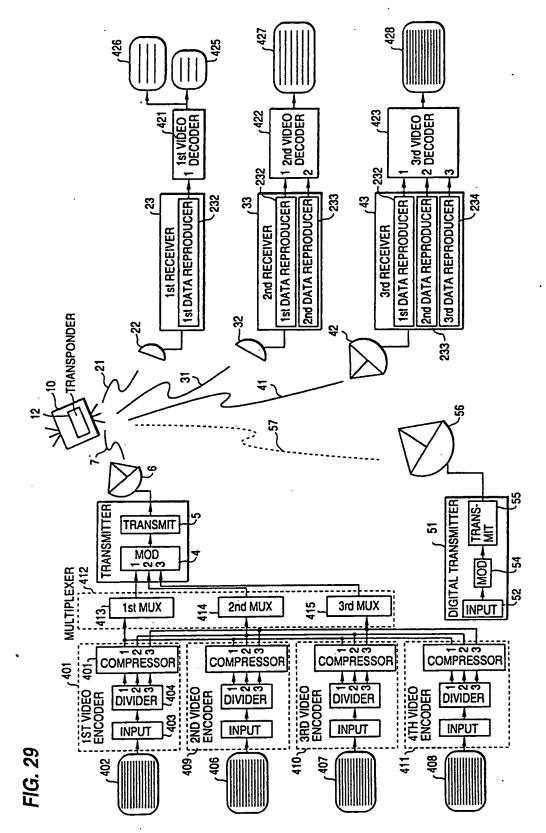


FIG. 28

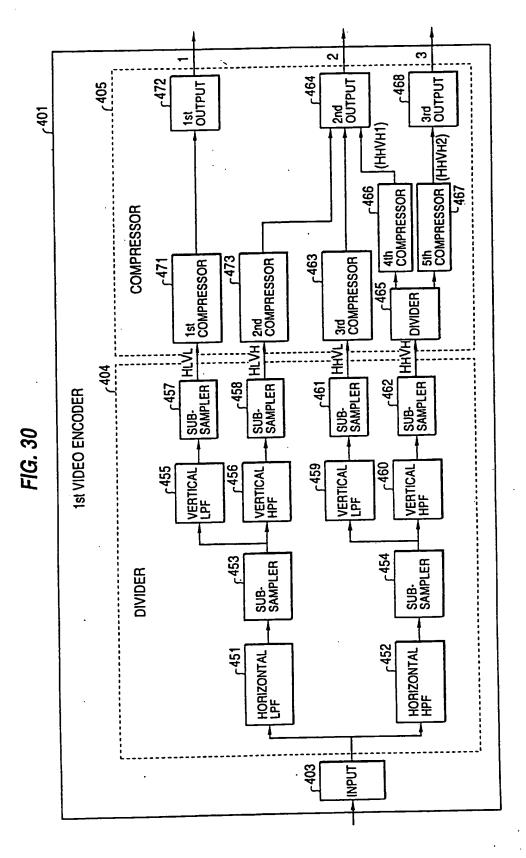


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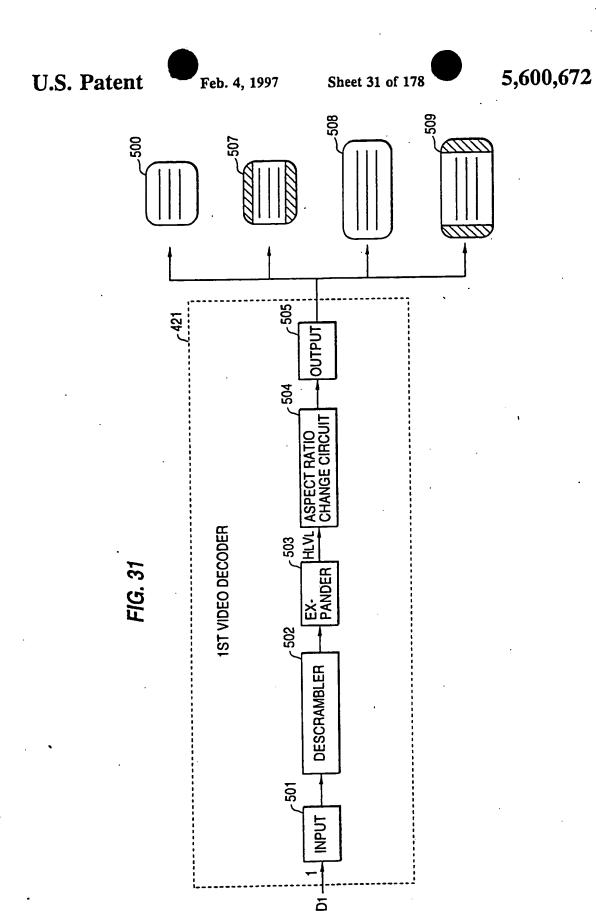


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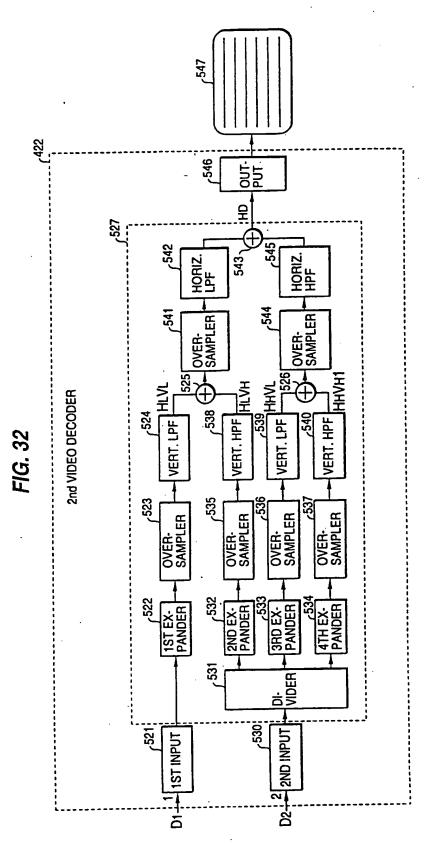
Sheet 30 of 178

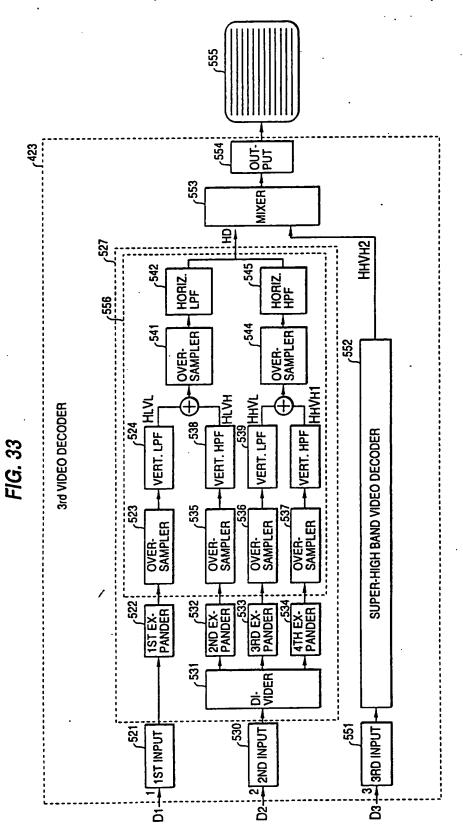


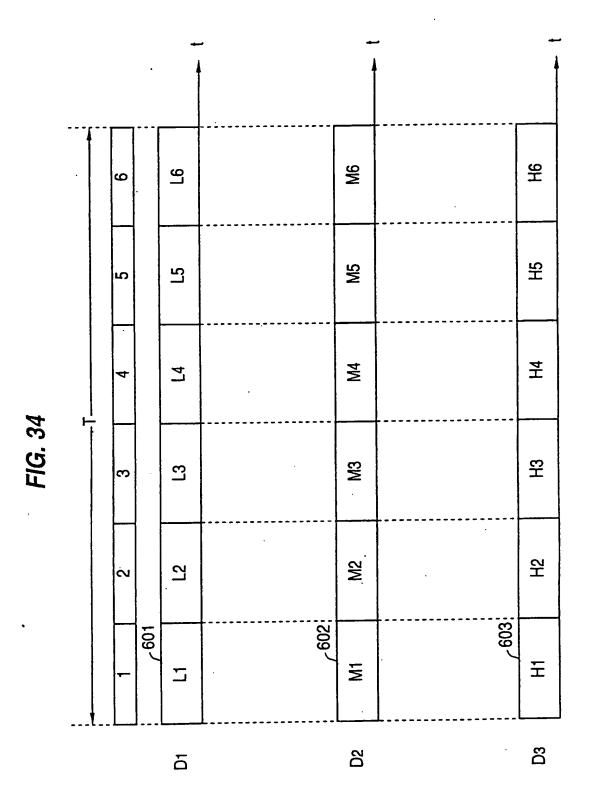
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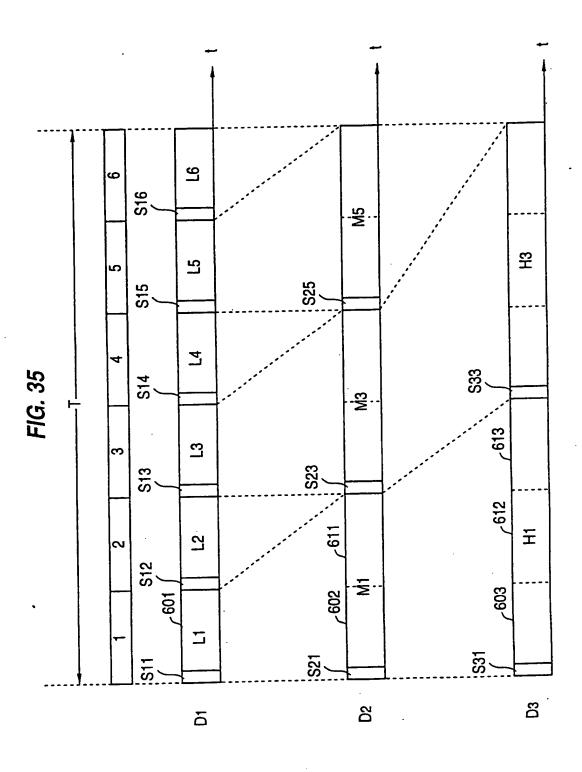


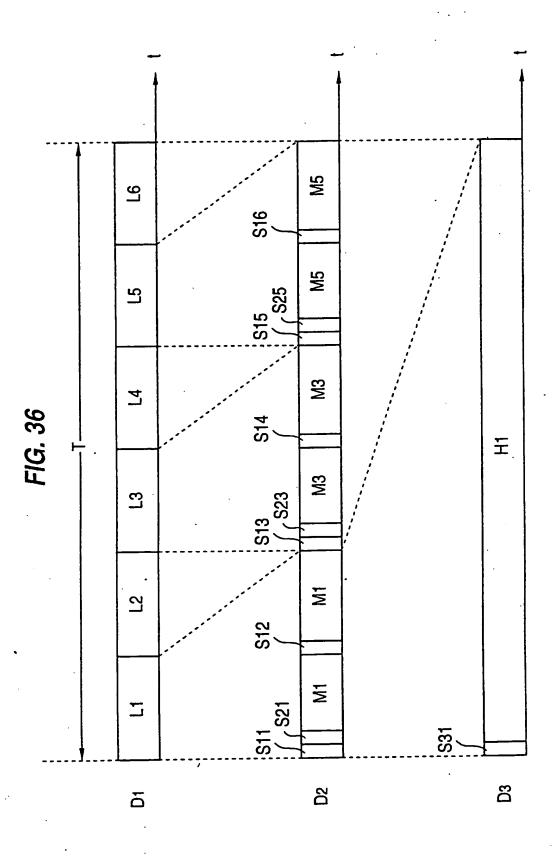
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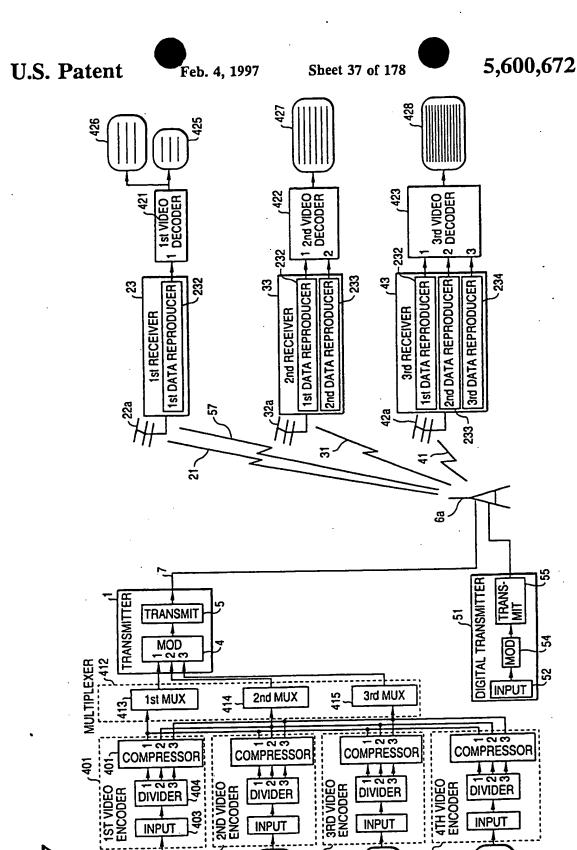
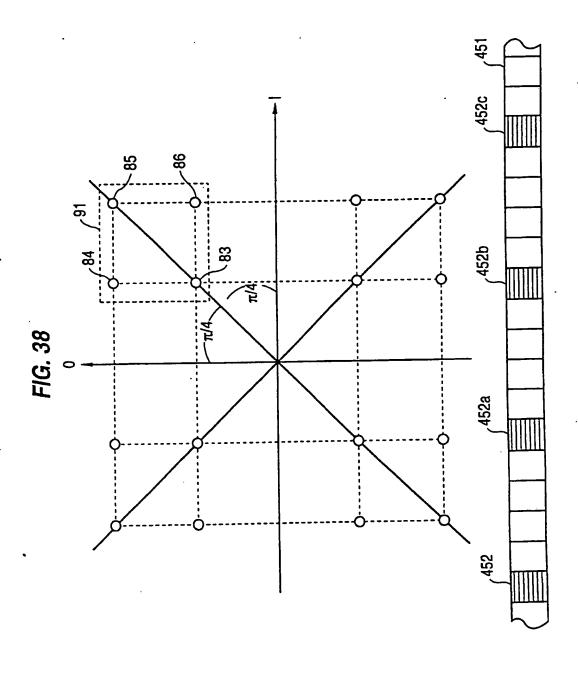
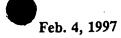
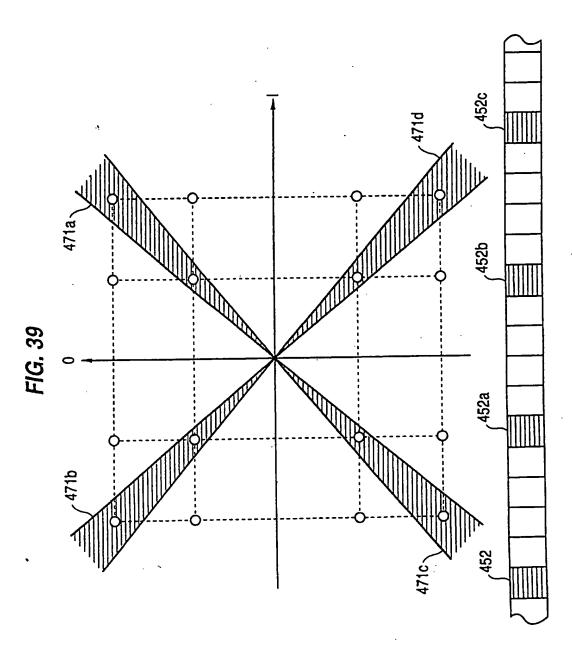


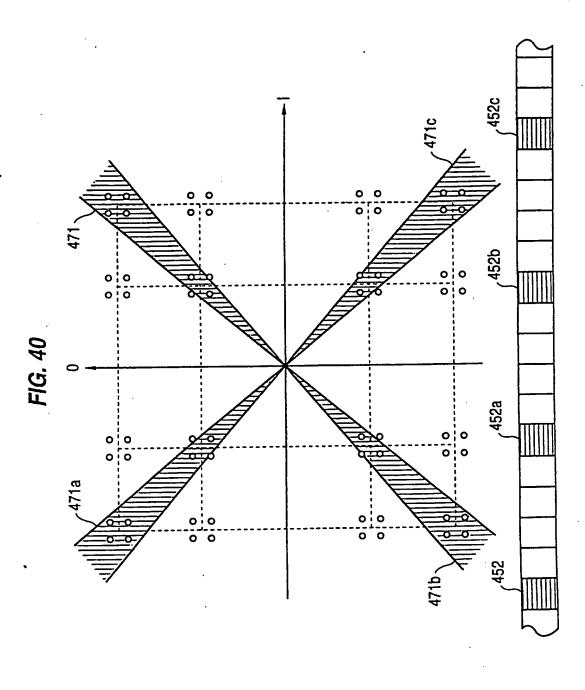
FIG. 37



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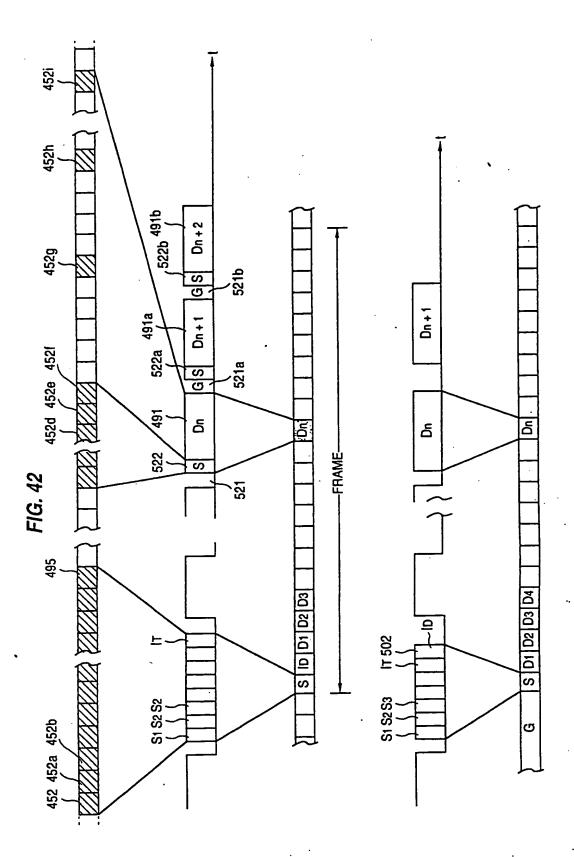


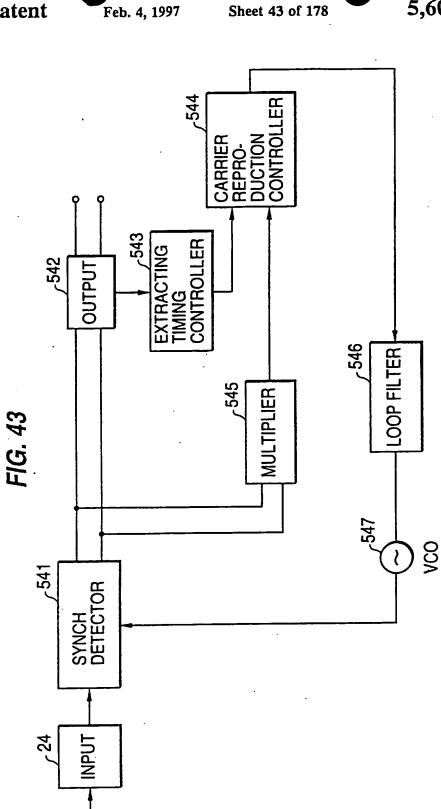




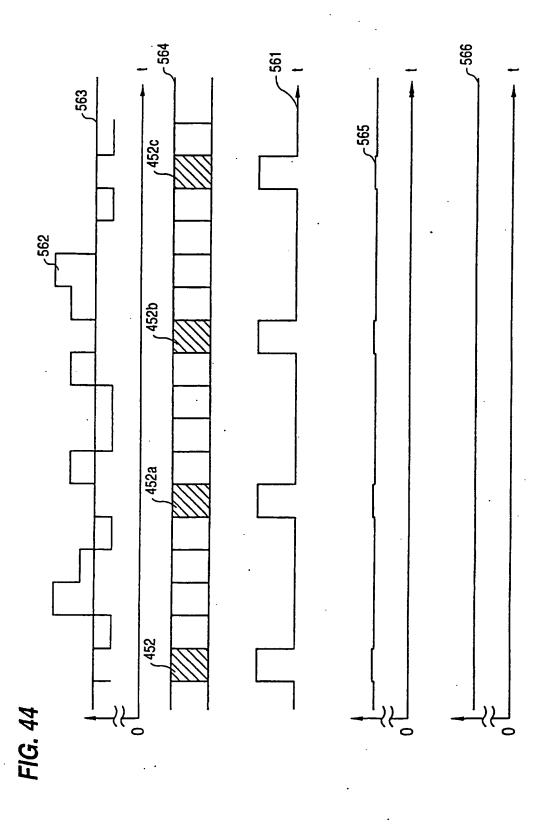
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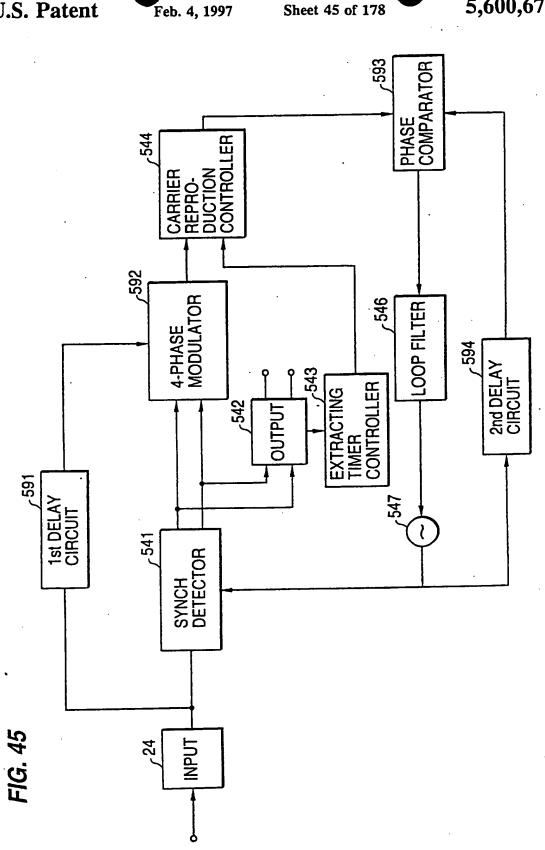
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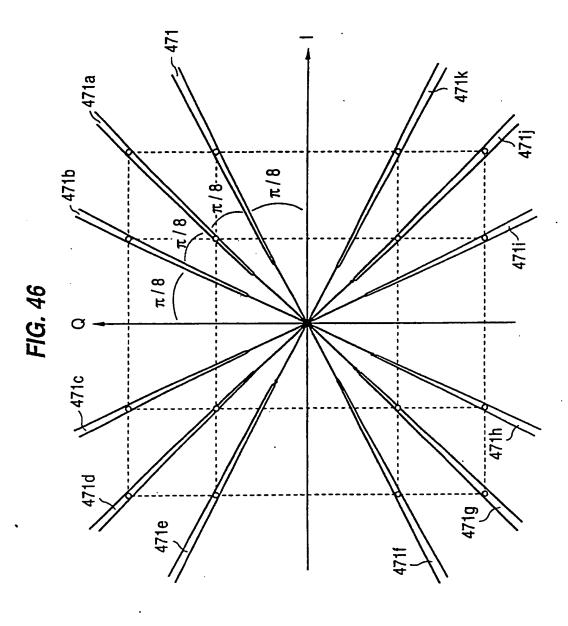


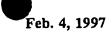












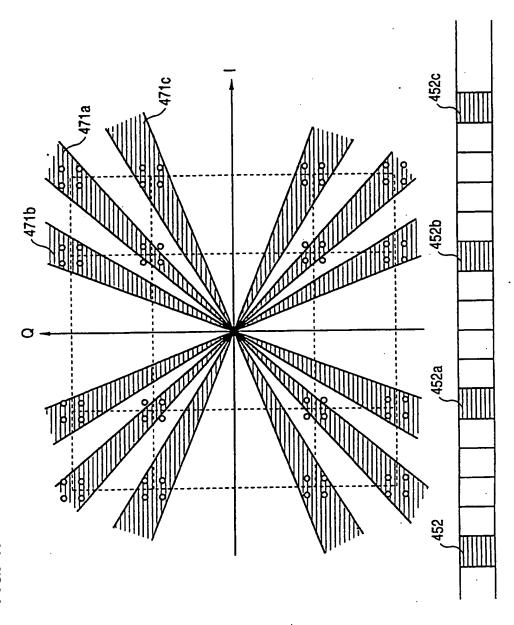
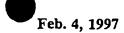
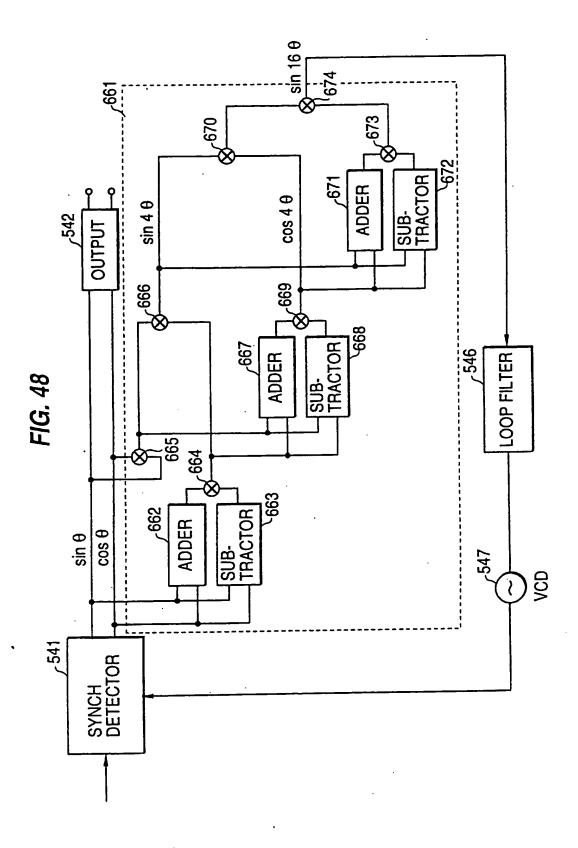


FIG. 47





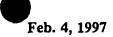
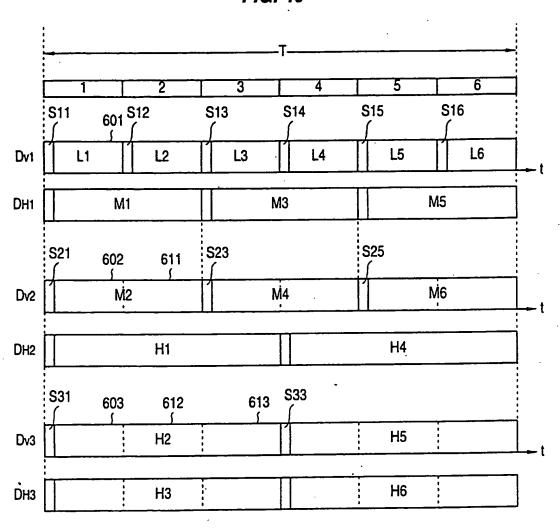


FIG. 49



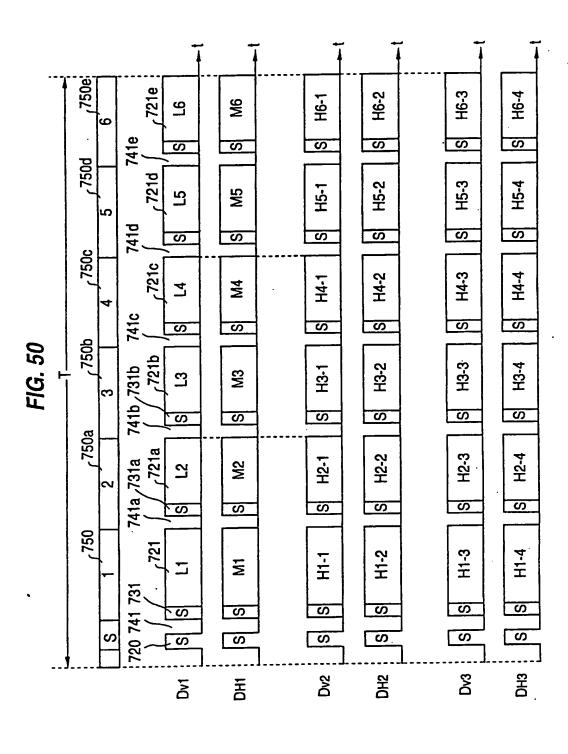
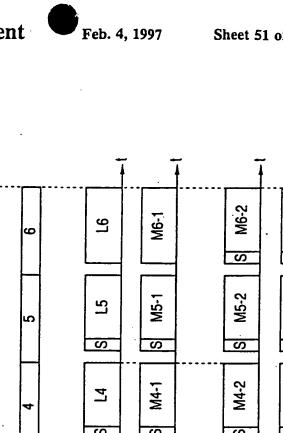
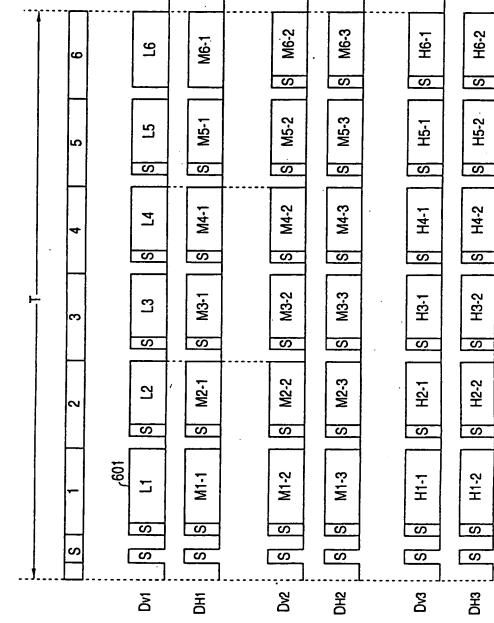
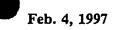
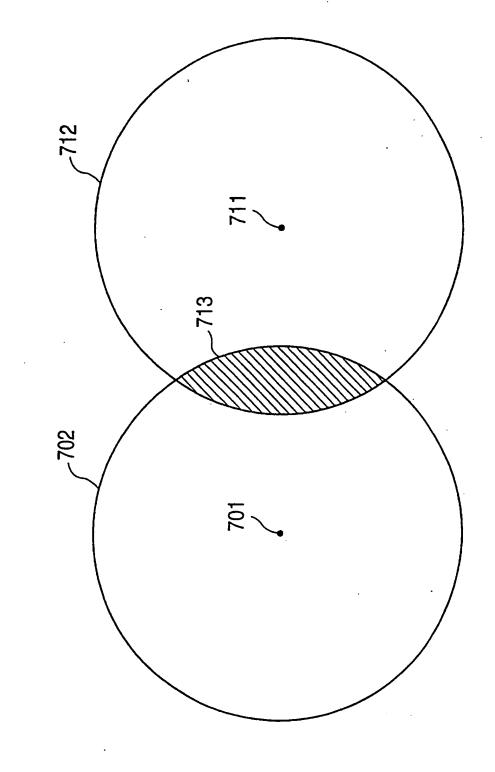


FIG. 51



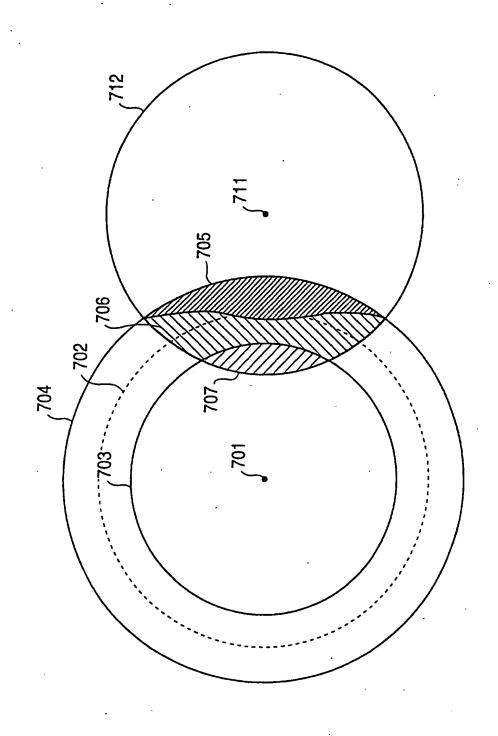






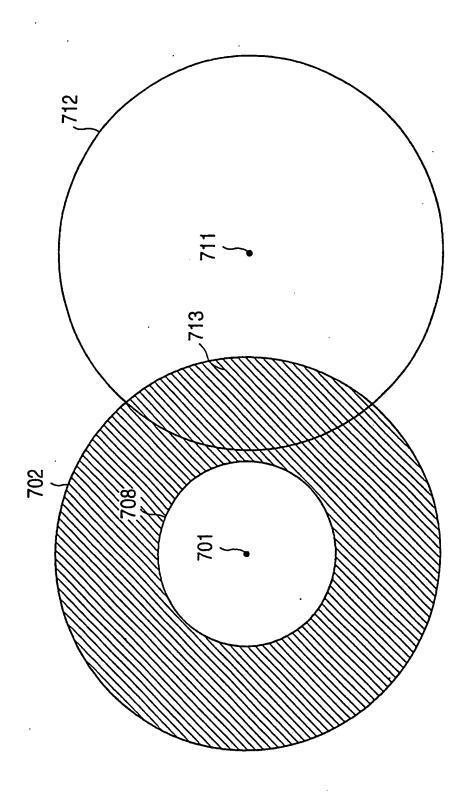
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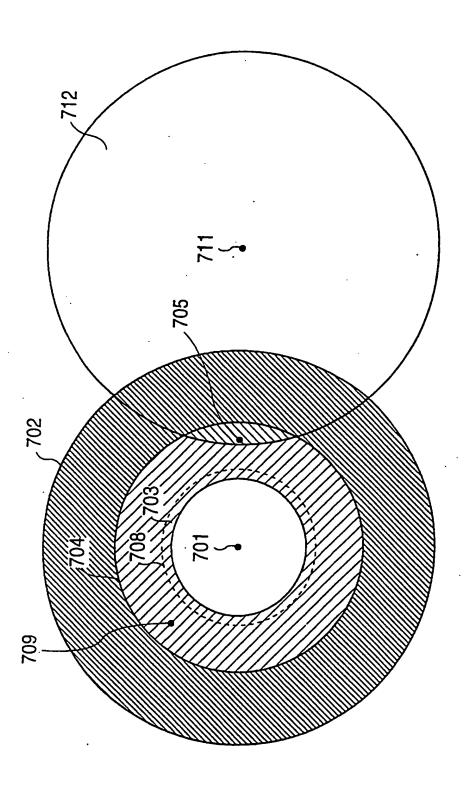














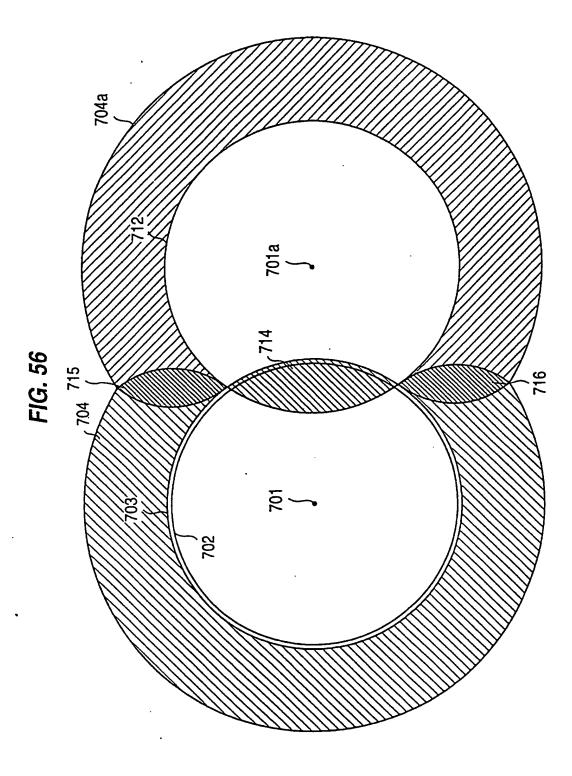


FIG. 57

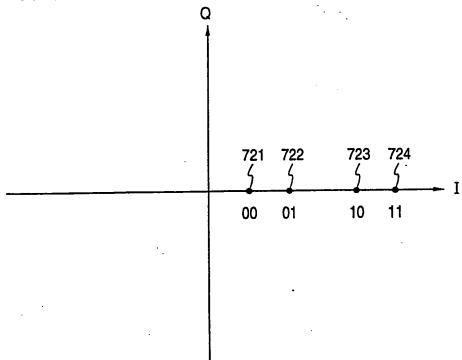
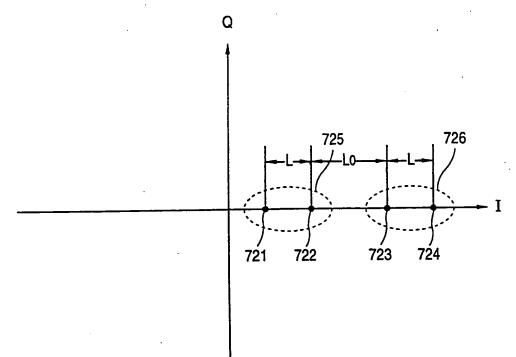
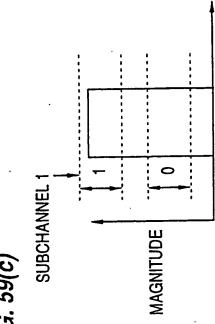


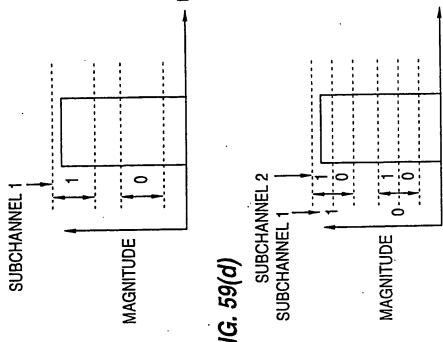
FIG. 58

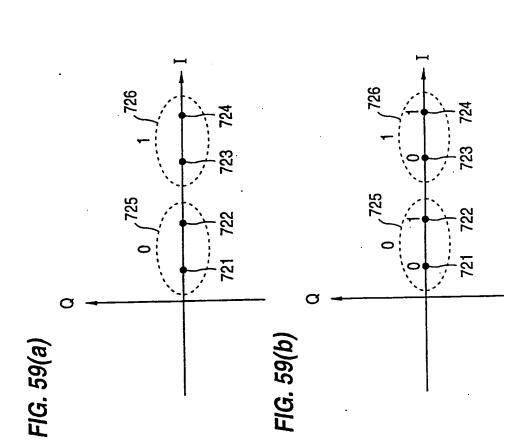


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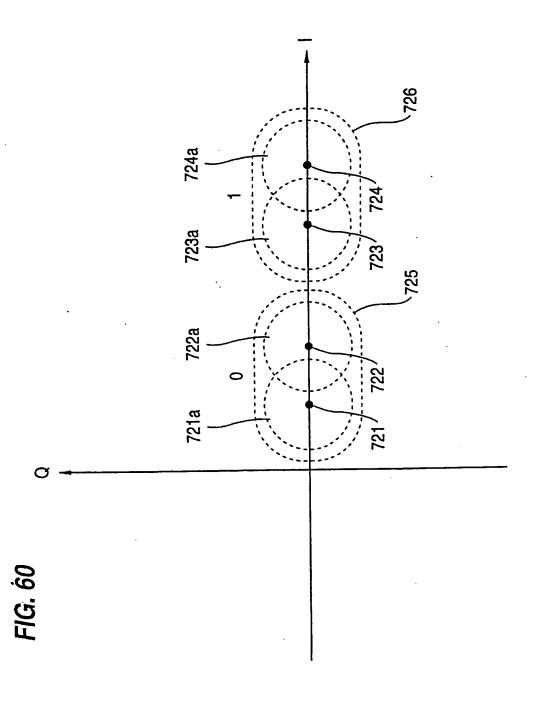
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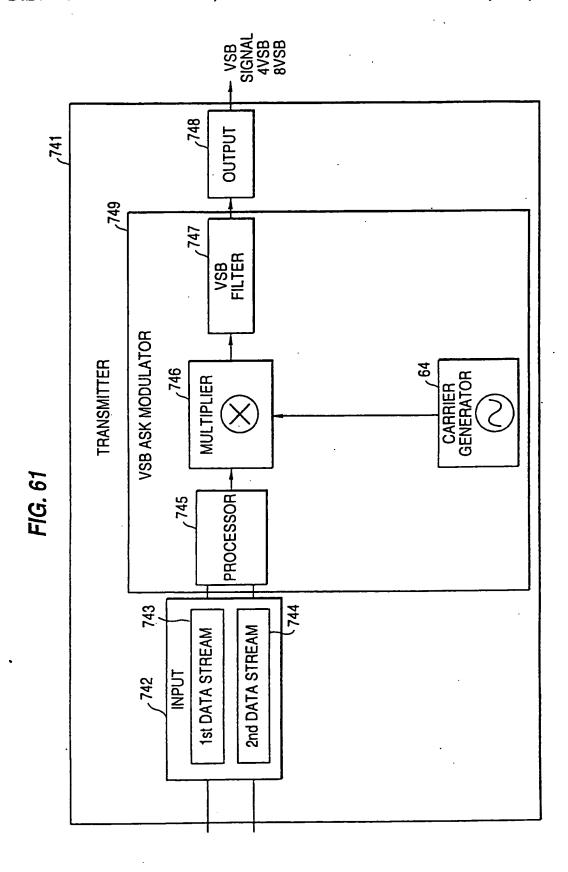




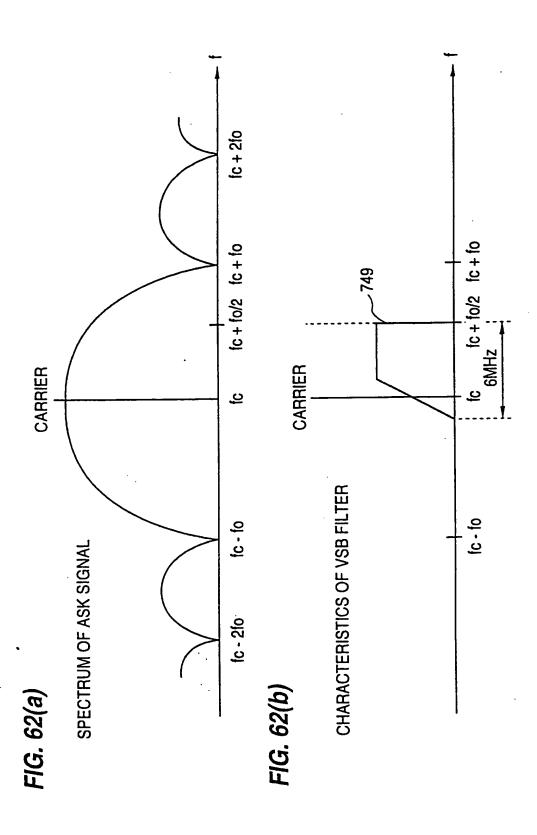




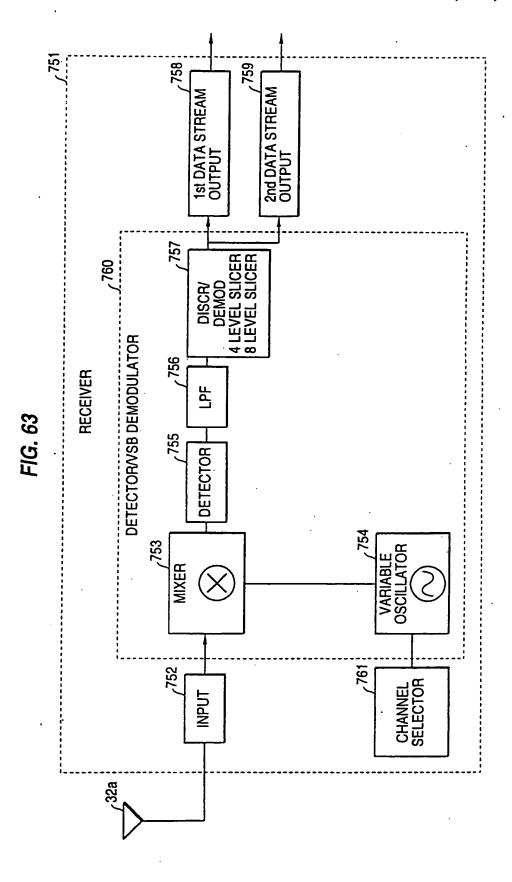


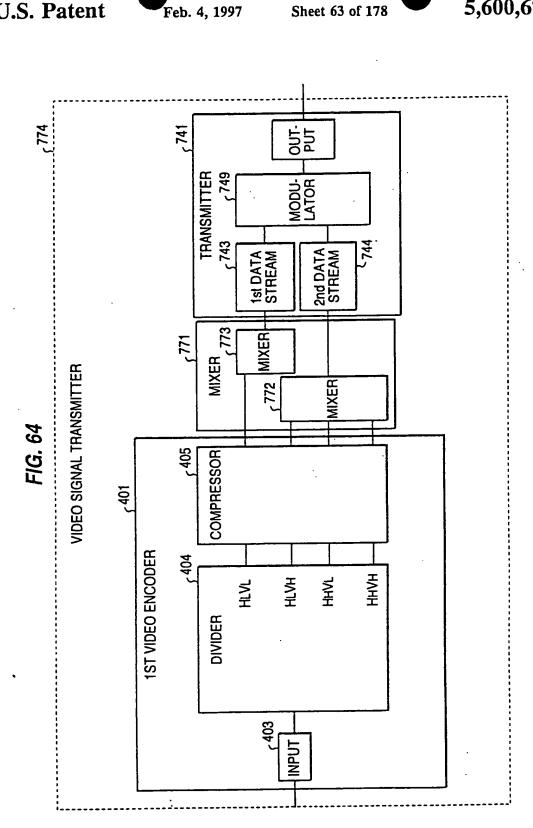


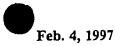
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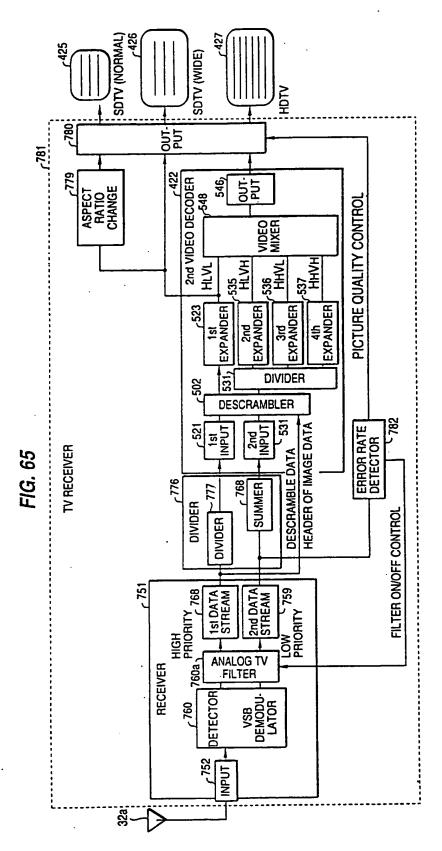


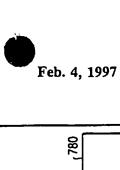


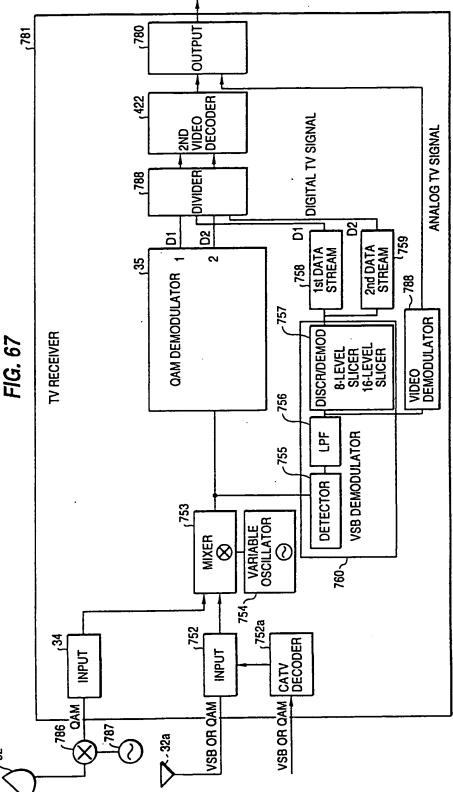






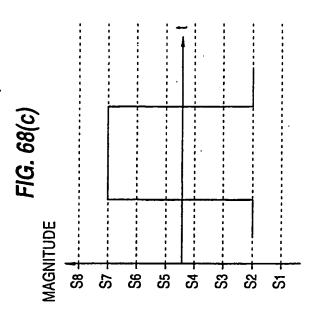


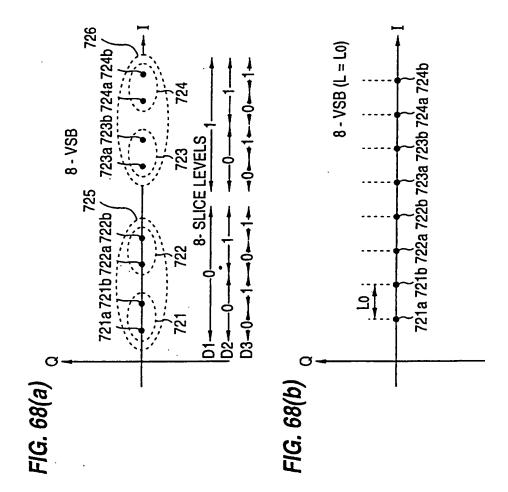


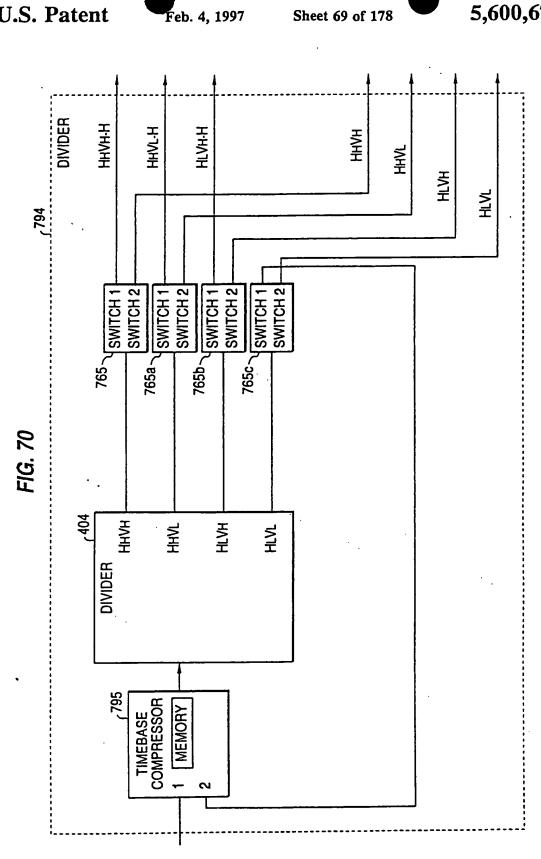


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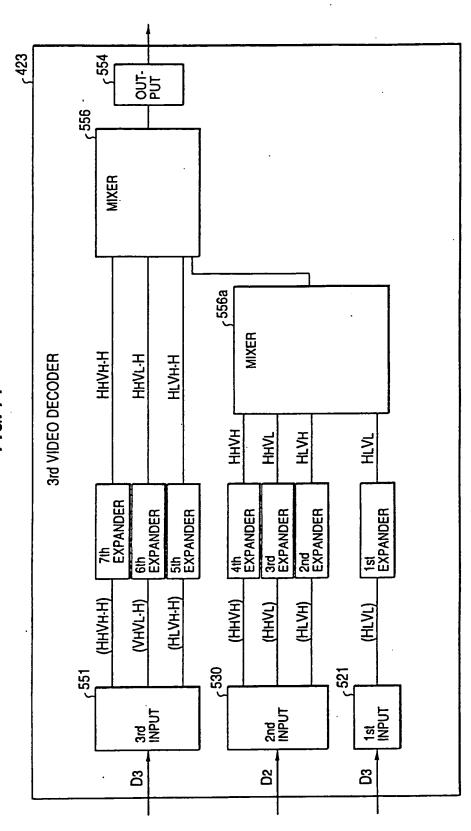


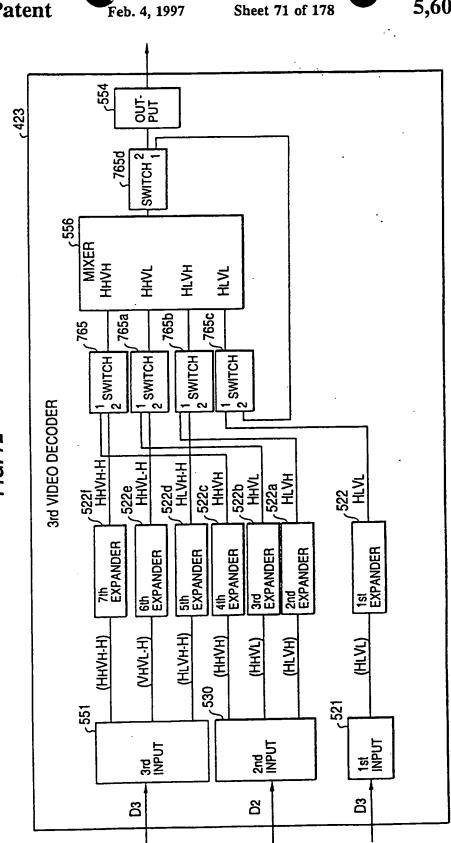


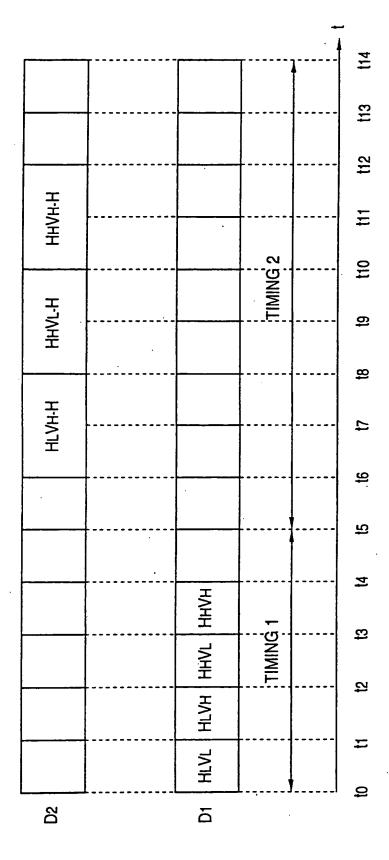


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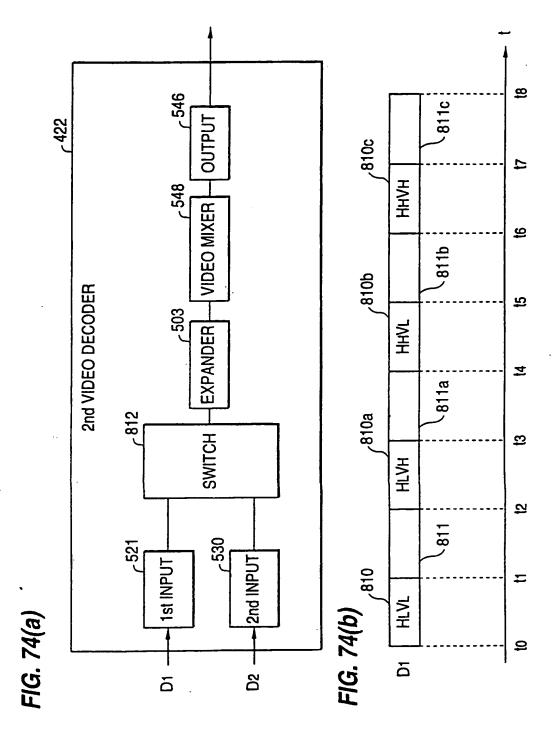




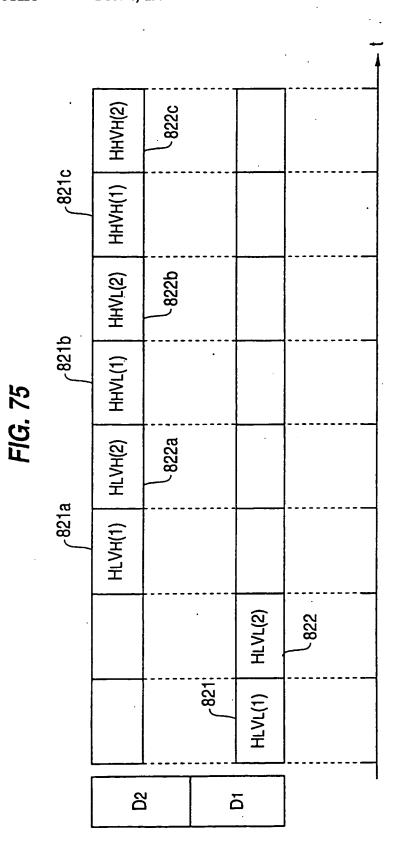


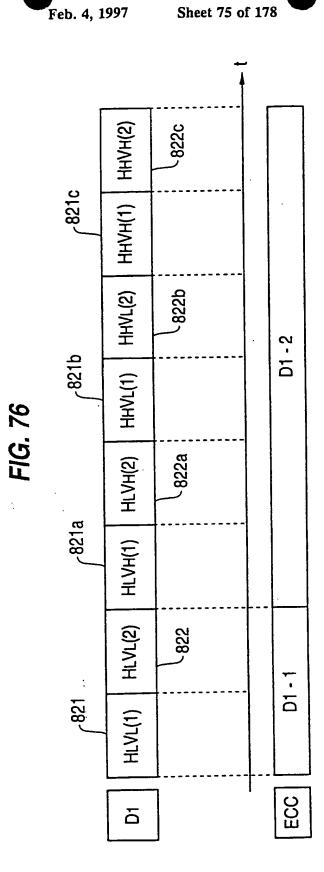
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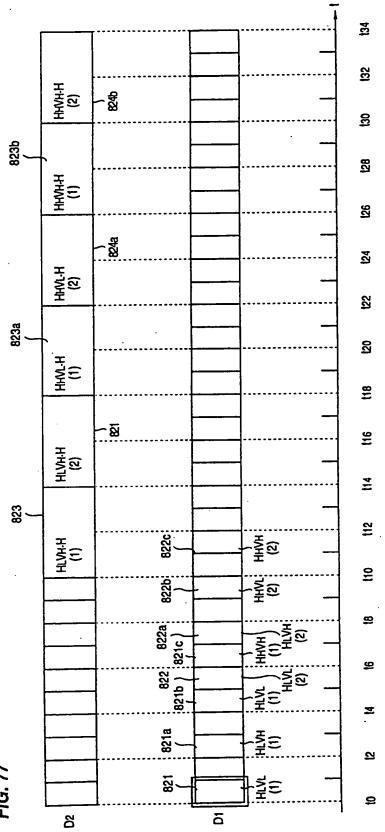


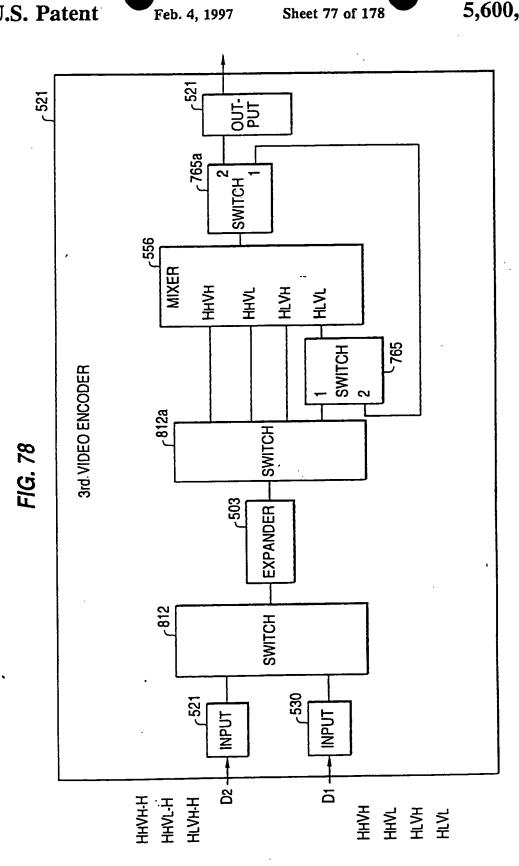
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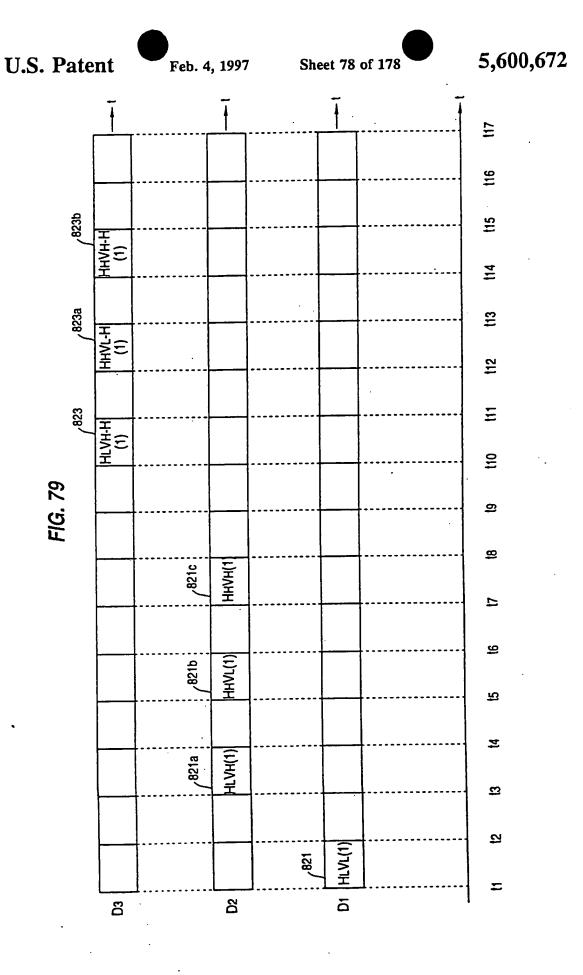


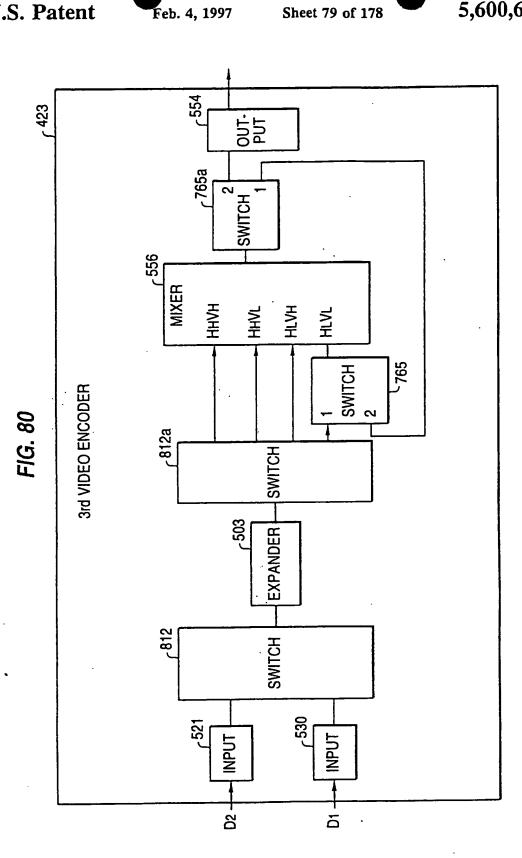


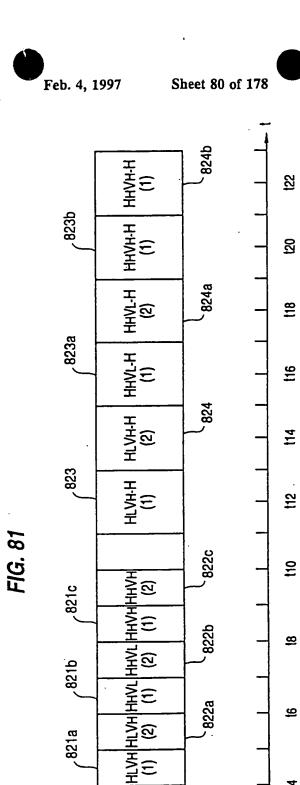
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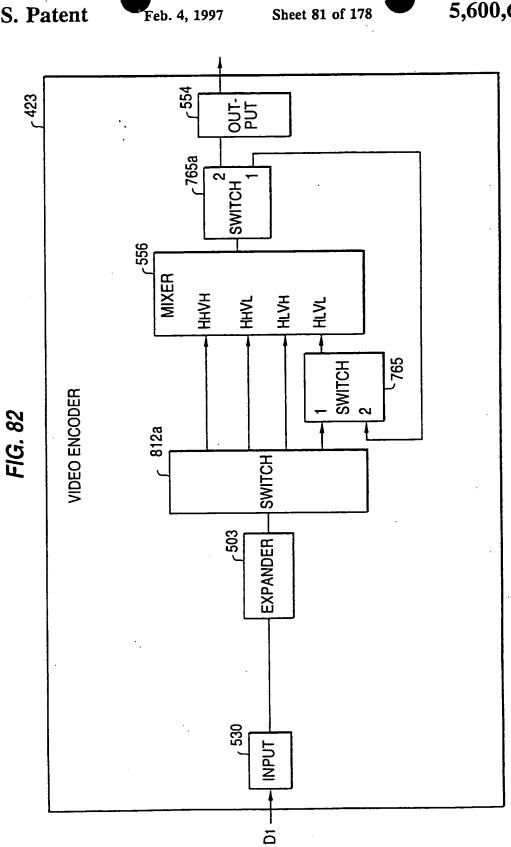
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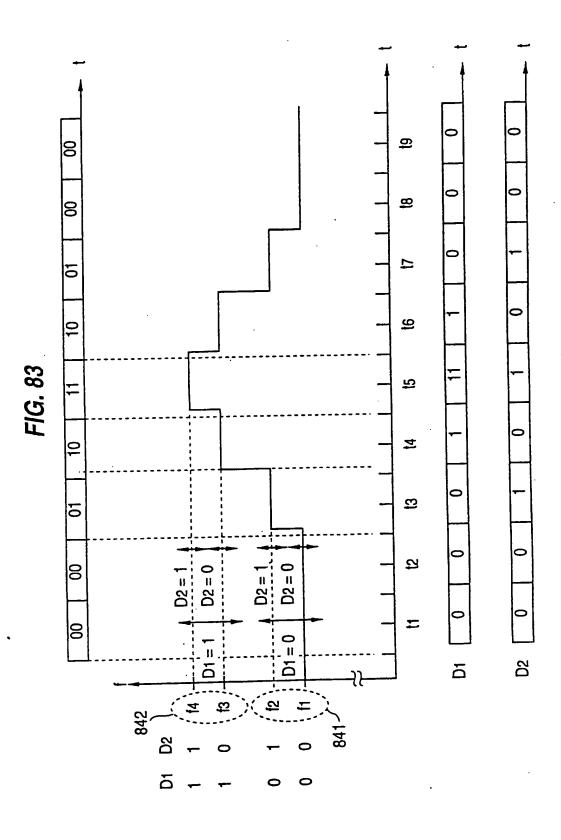
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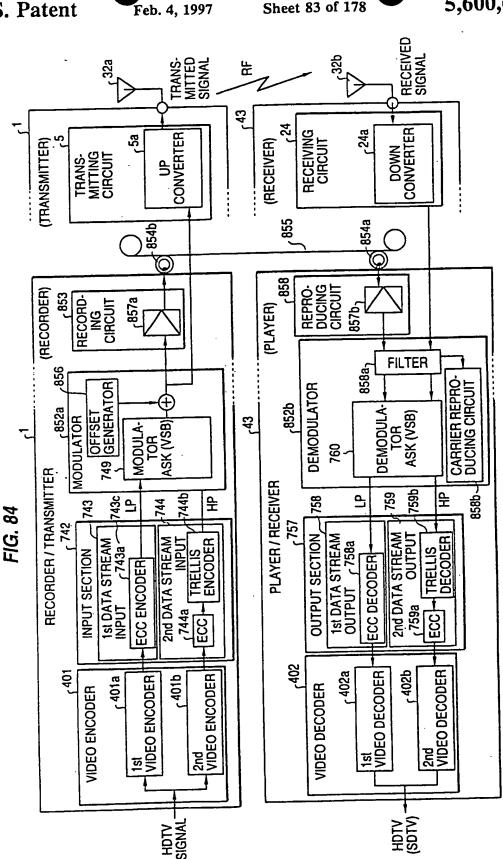
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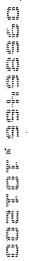
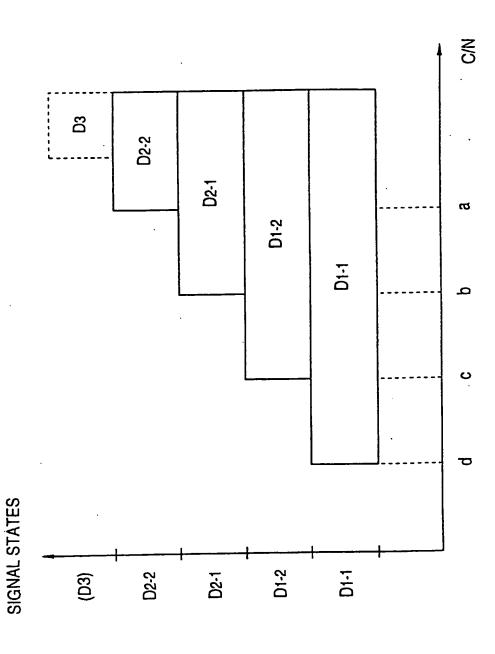
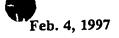
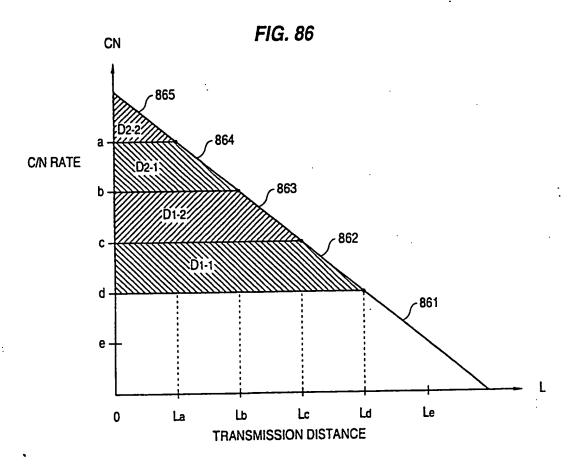
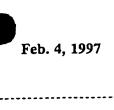


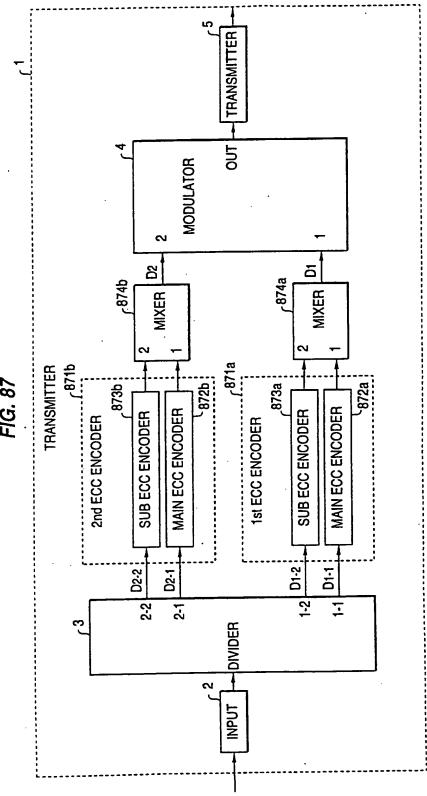
FIG. 85











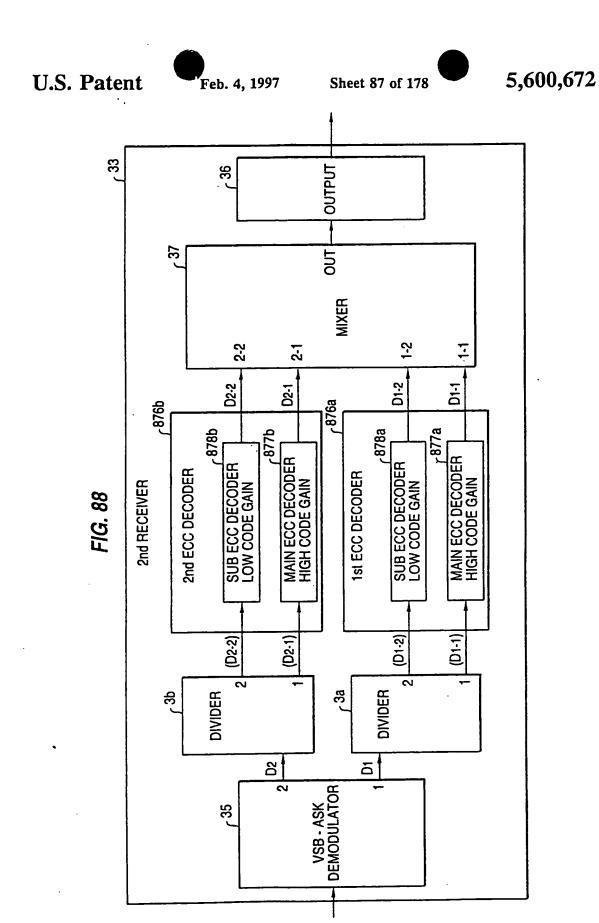
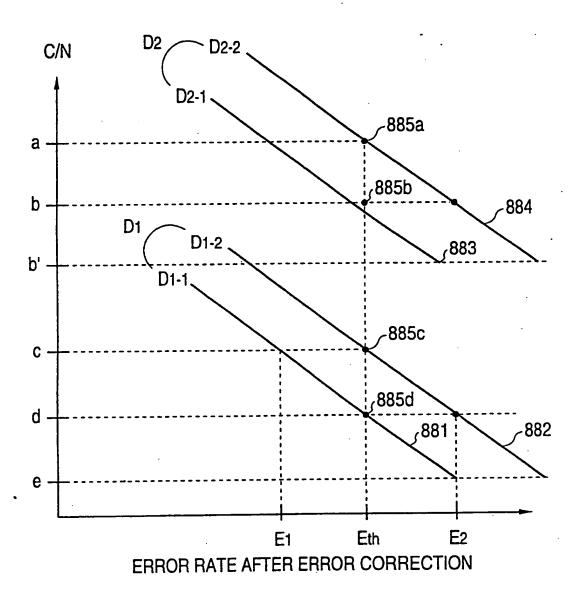
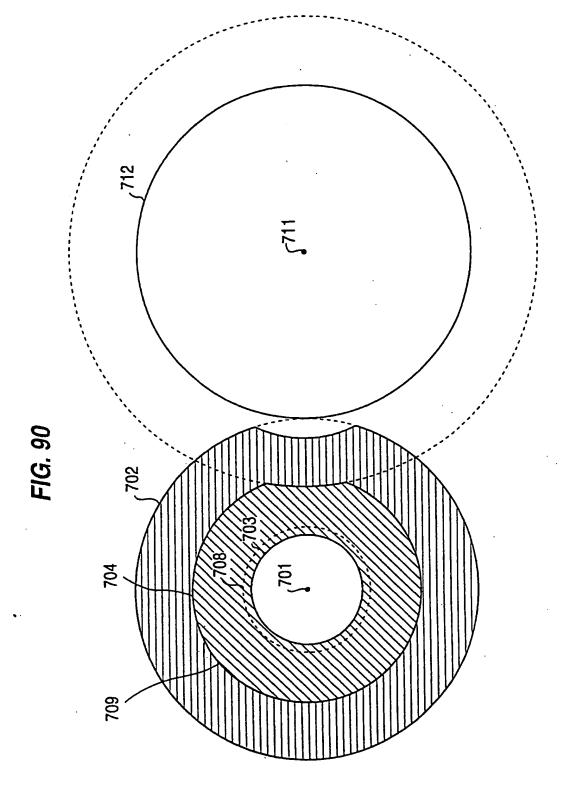


FIG. 89





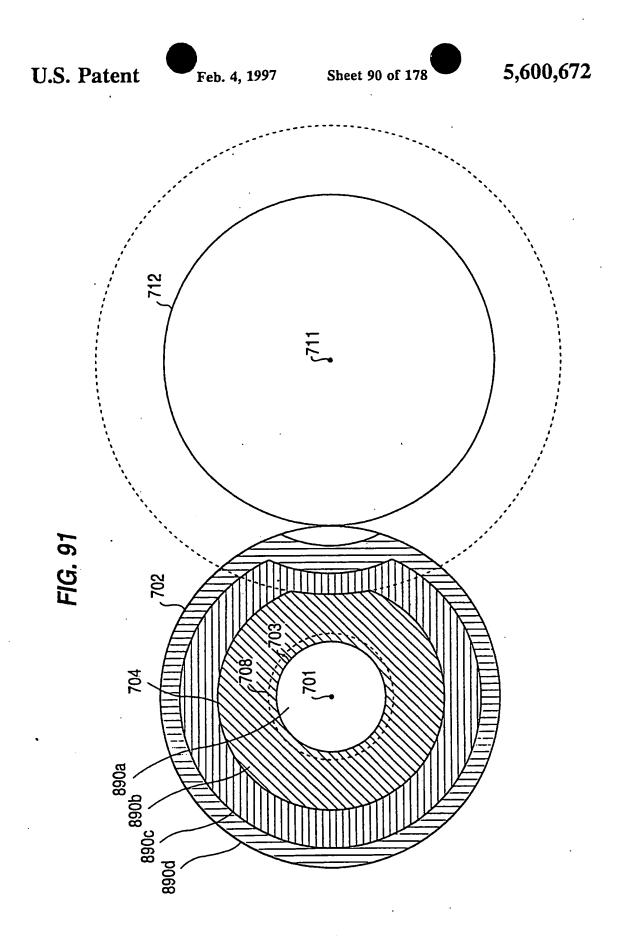
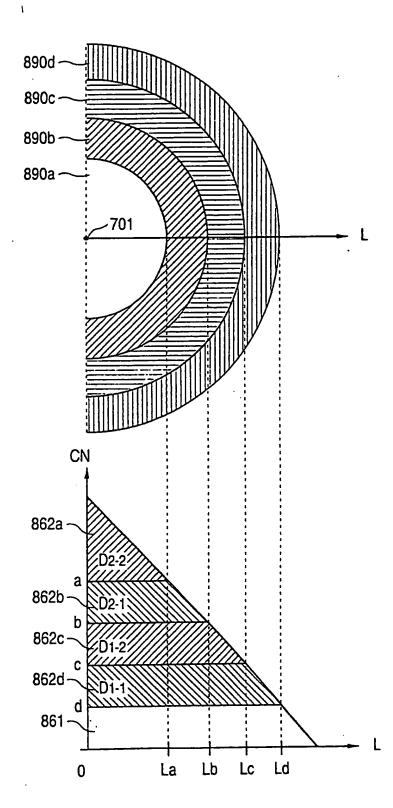
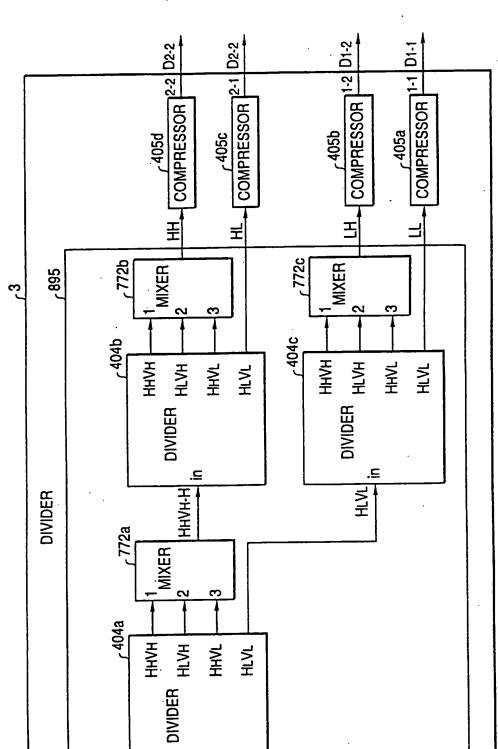


FIG. 92

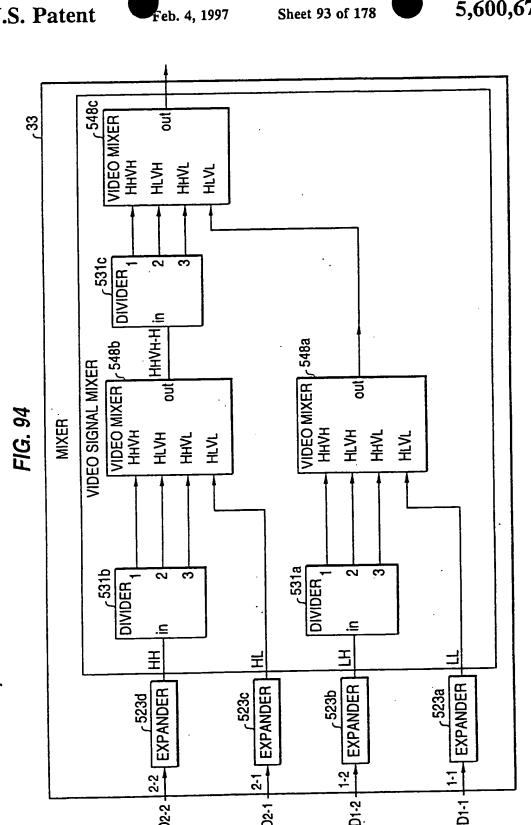


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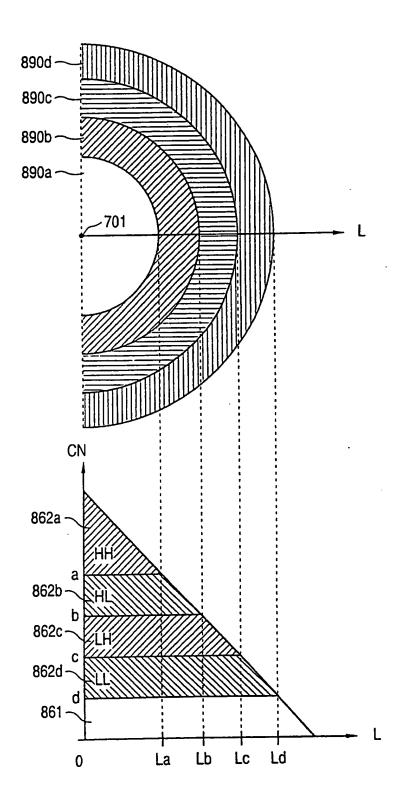
The state of the s

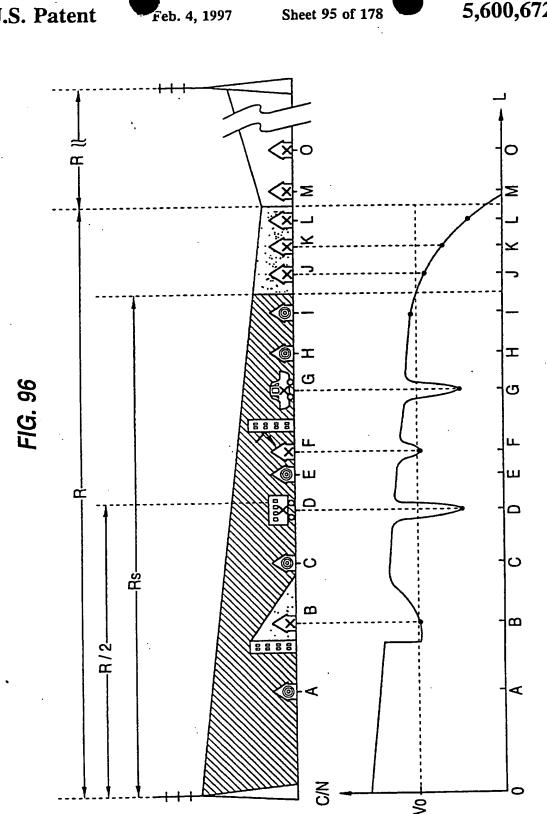
FIG. 93



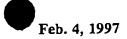
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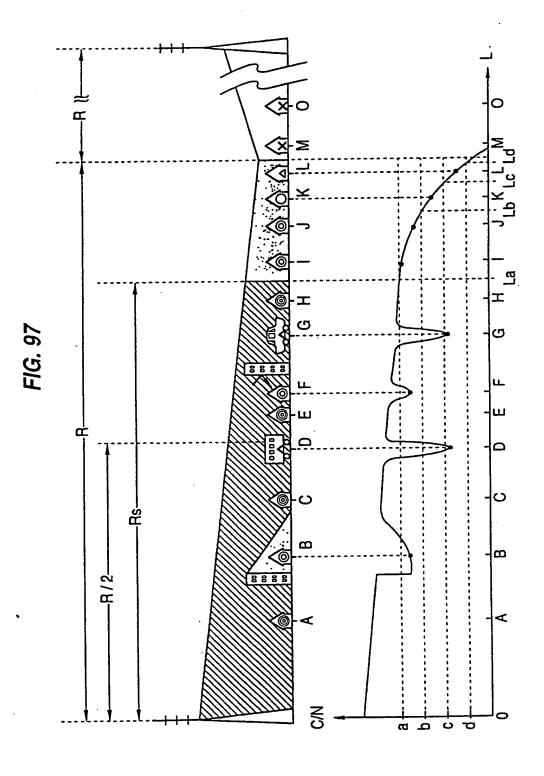
FIG. 95





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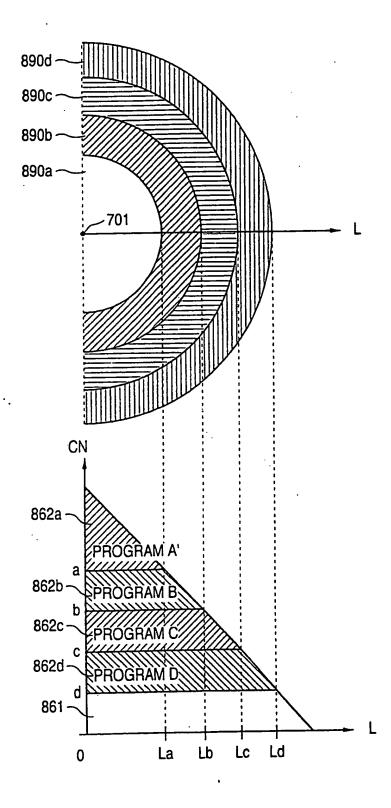




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FIG. 98

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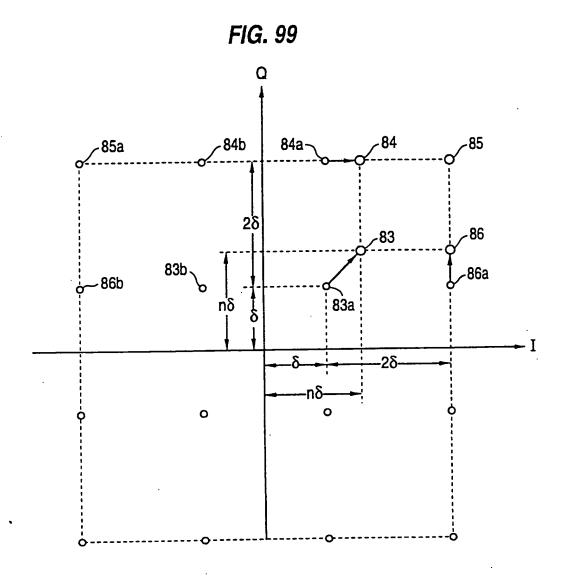
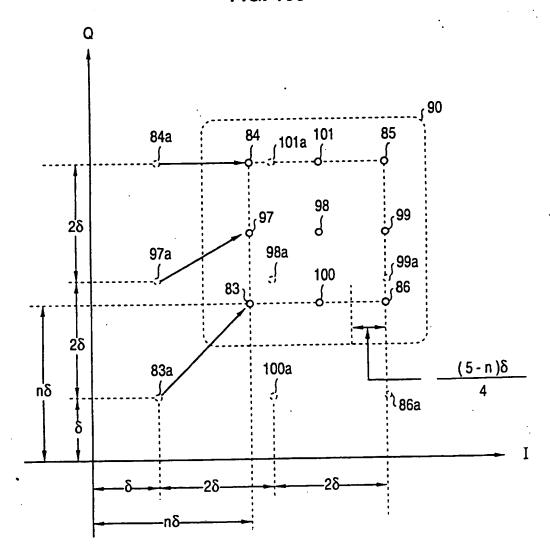


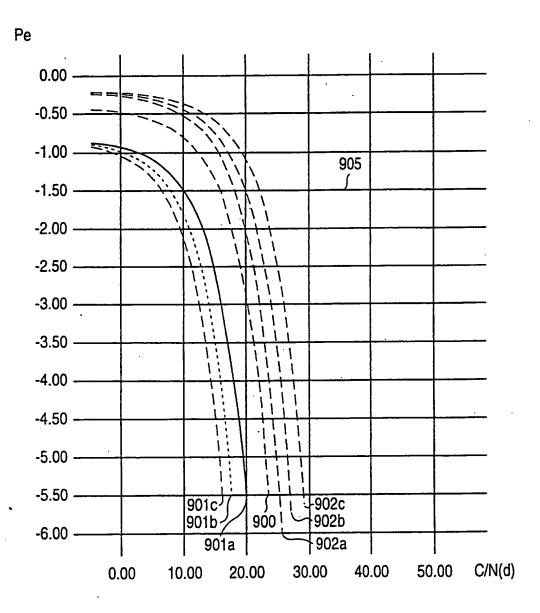
FIG. 100



U.S. Patent

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FIG. 101



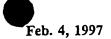
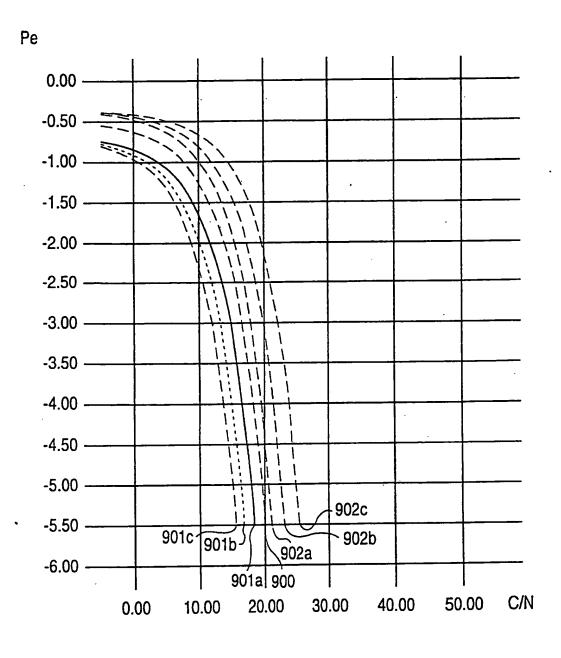


FIG. 102

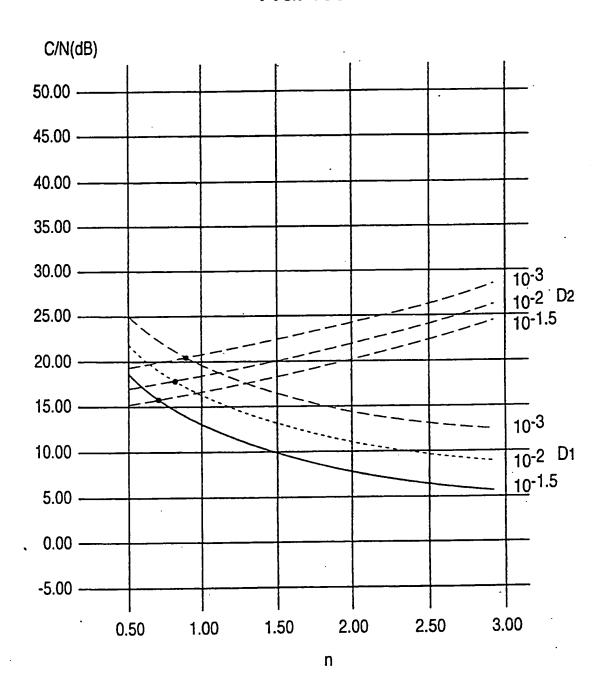


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part from most other from the first dark and all the first parts from the first f

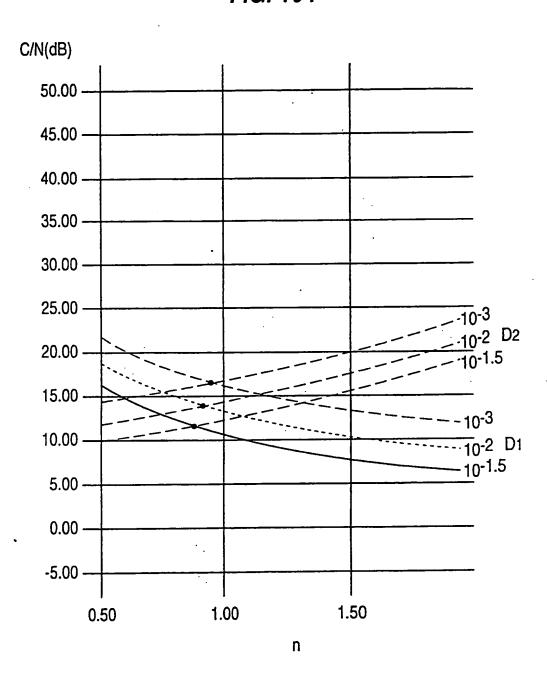
Feb. 4, 1997 Sheet 102 of 178

FIG. 103

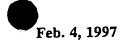


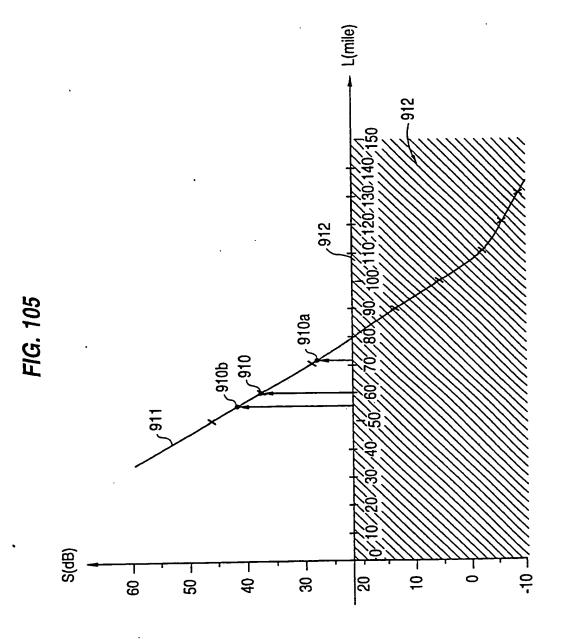
feb. 4, 1997

FIG. 104

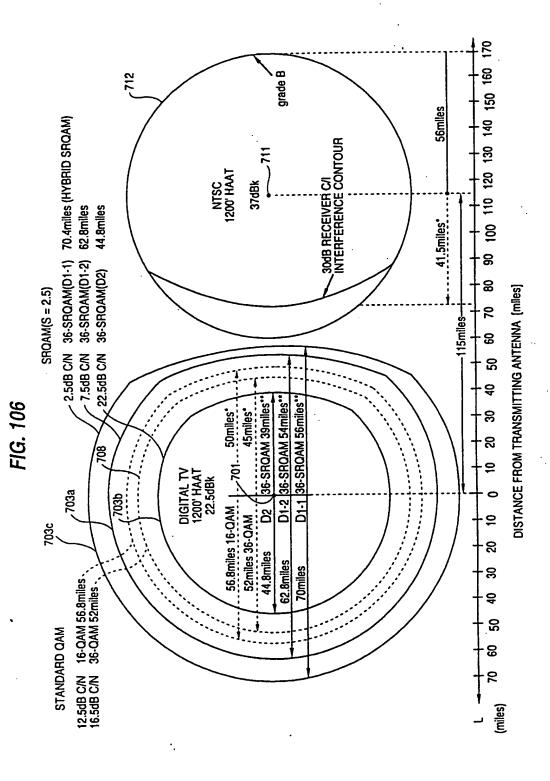


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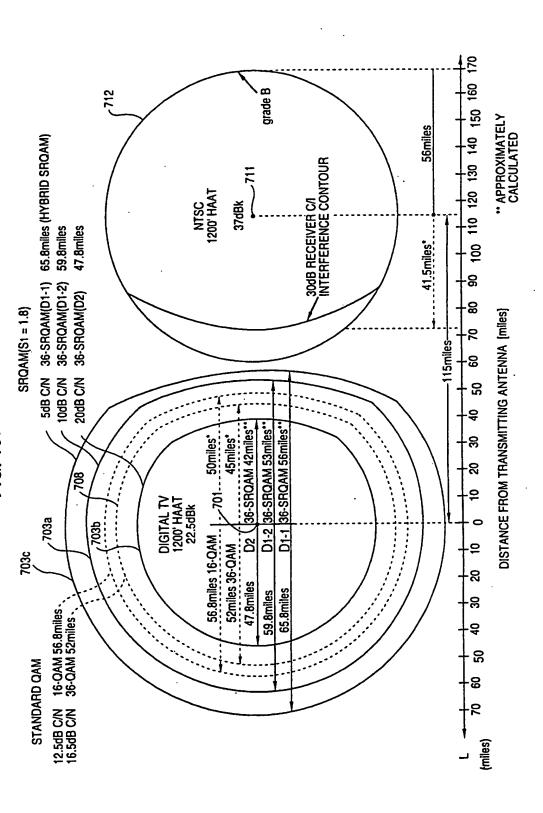


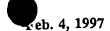


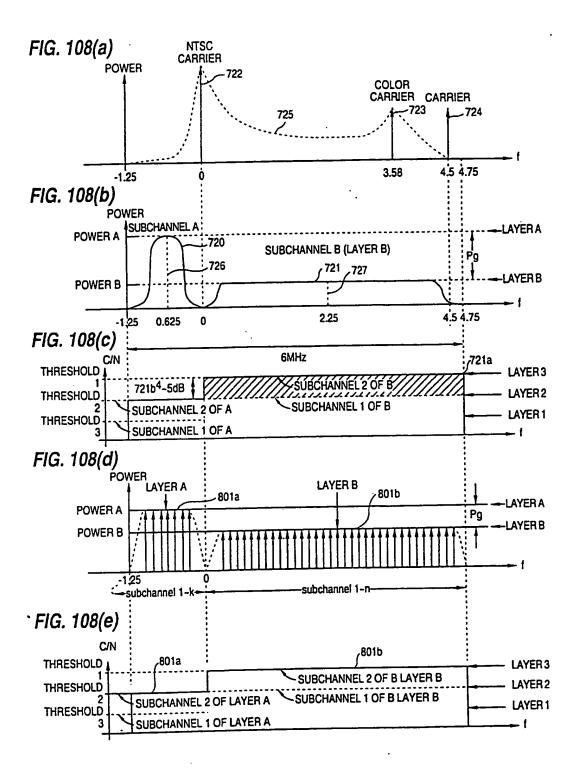
Feb. 4, 1997

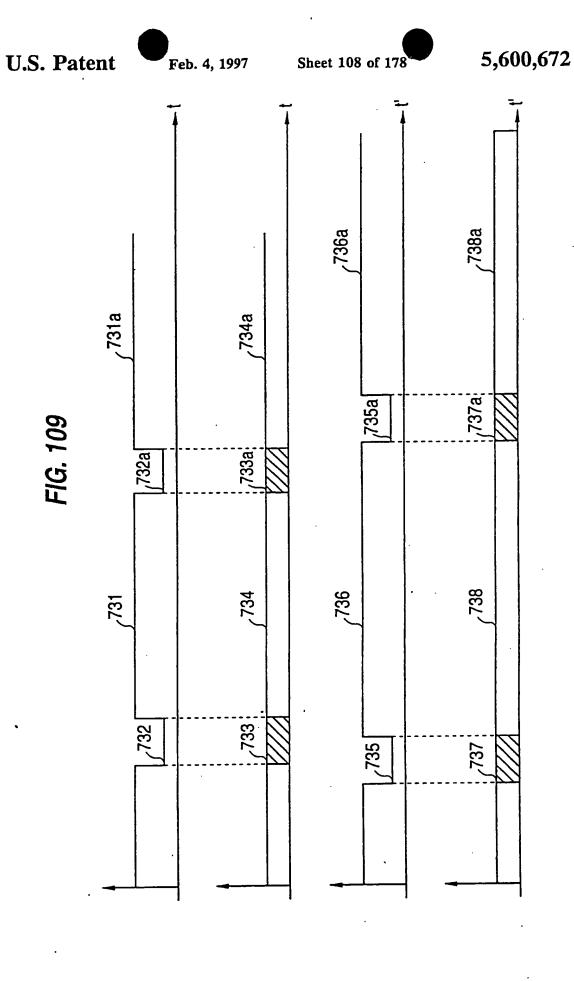


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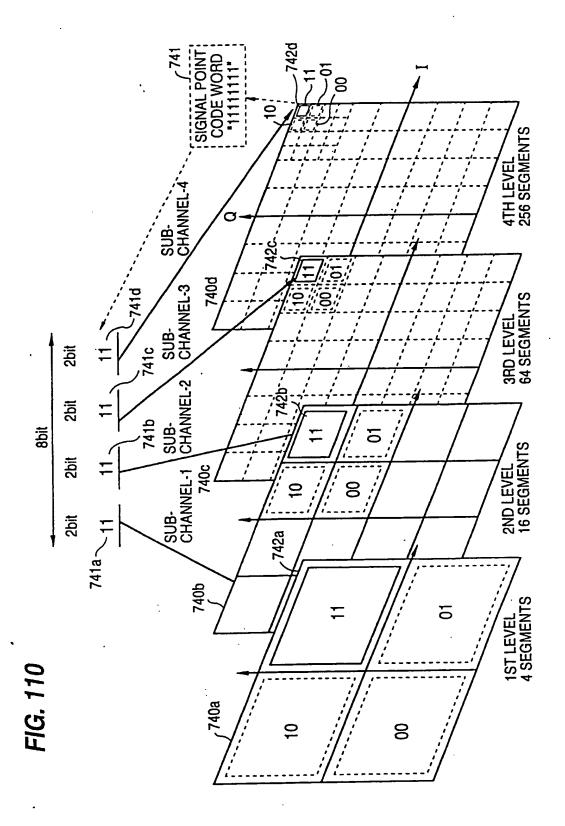
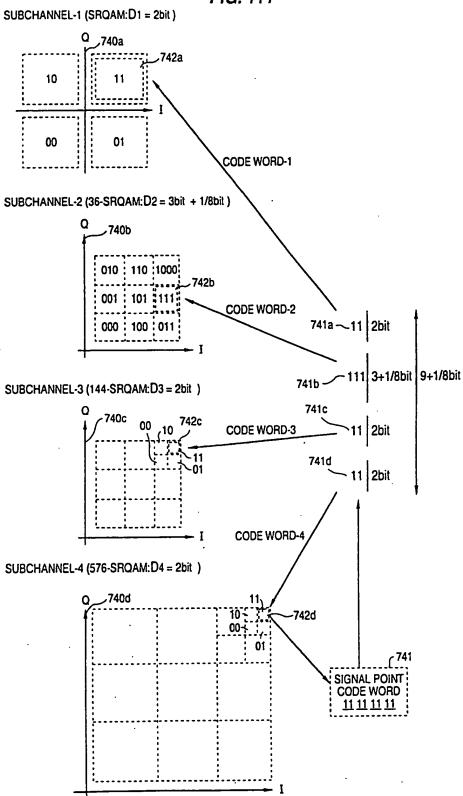




FIG. 111



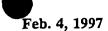
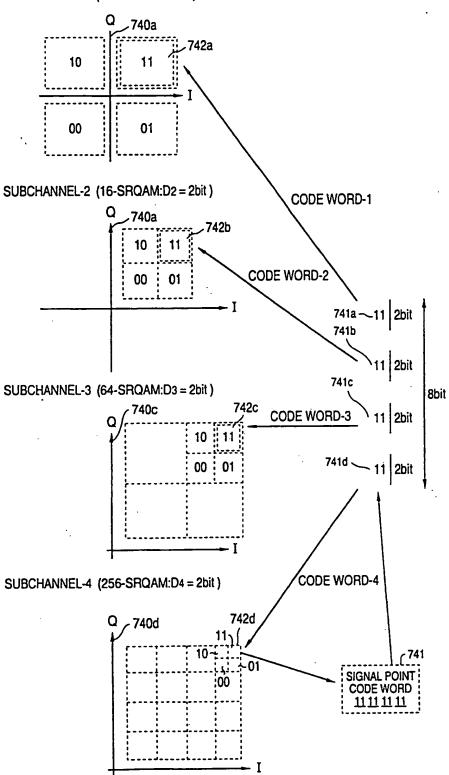
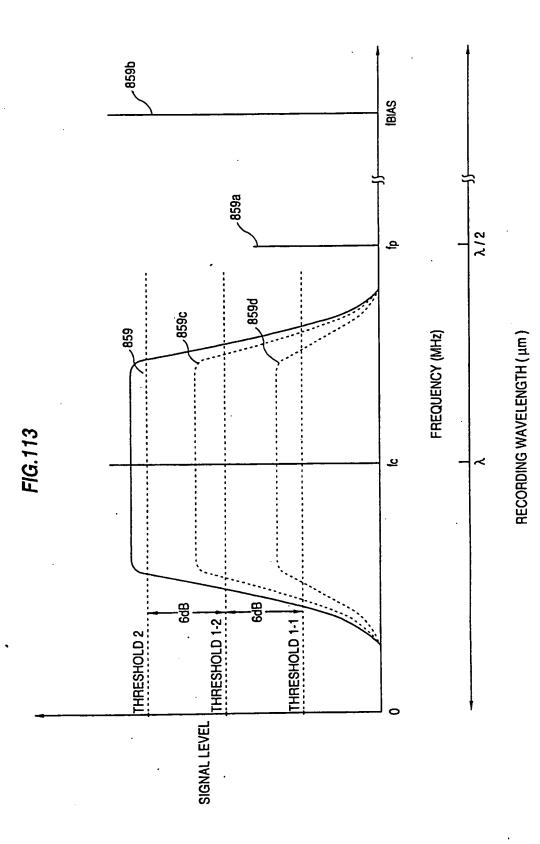
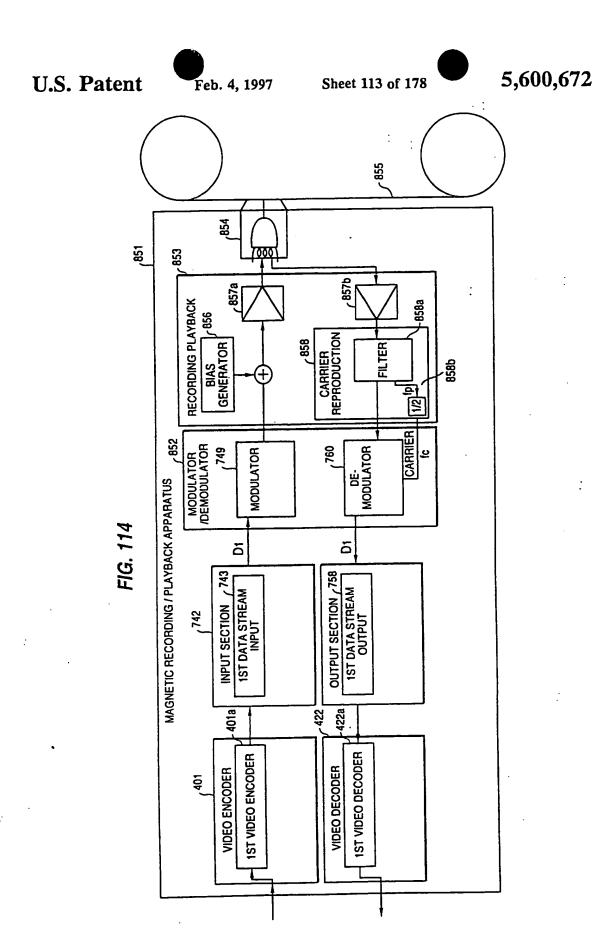


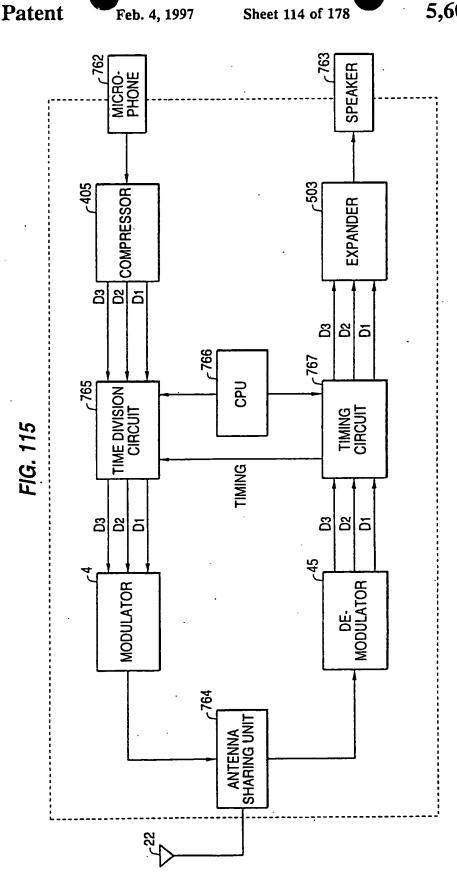
FIG. 112

SUBCHANNEL-1 (SRQAM:D1 = 2bit)

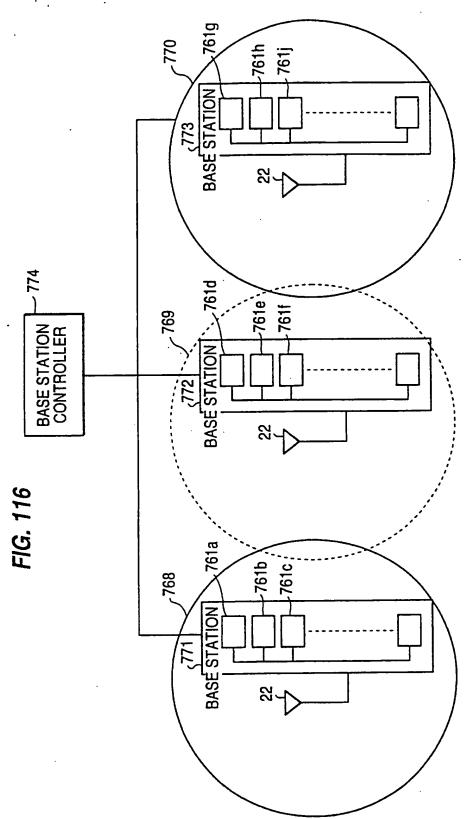


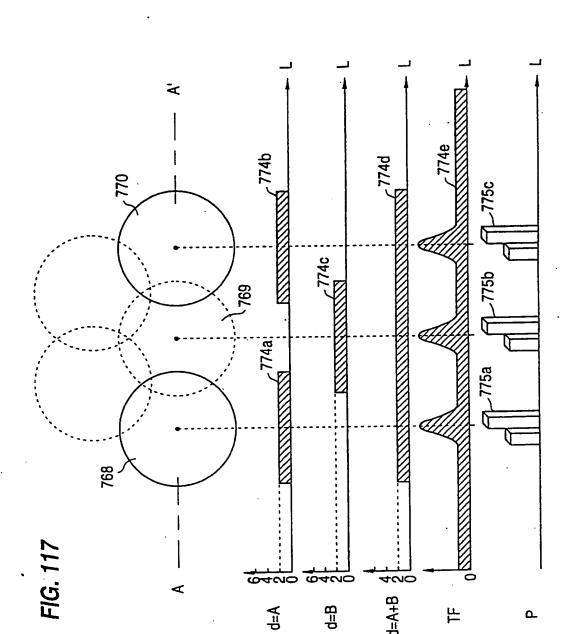


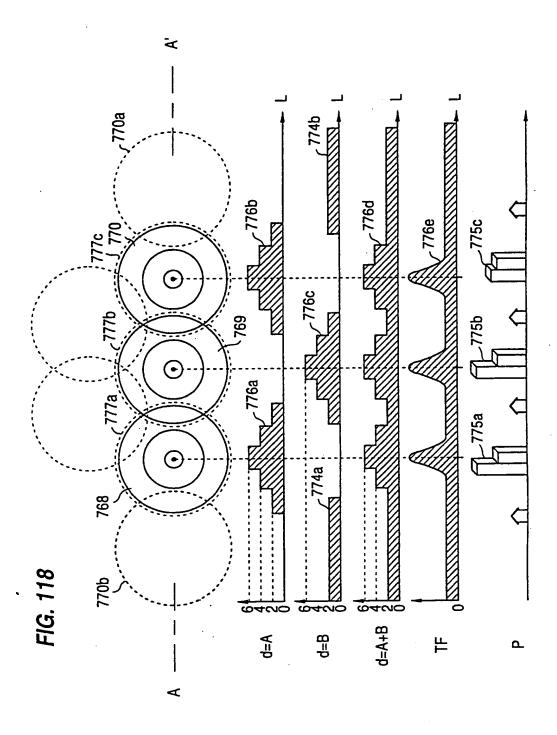


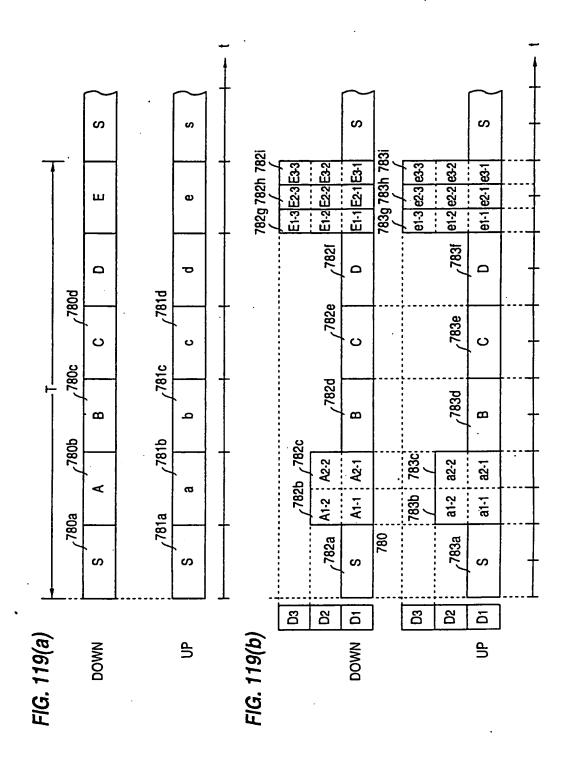


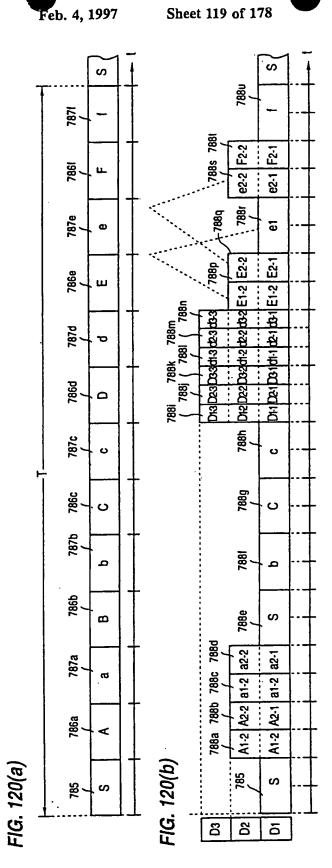
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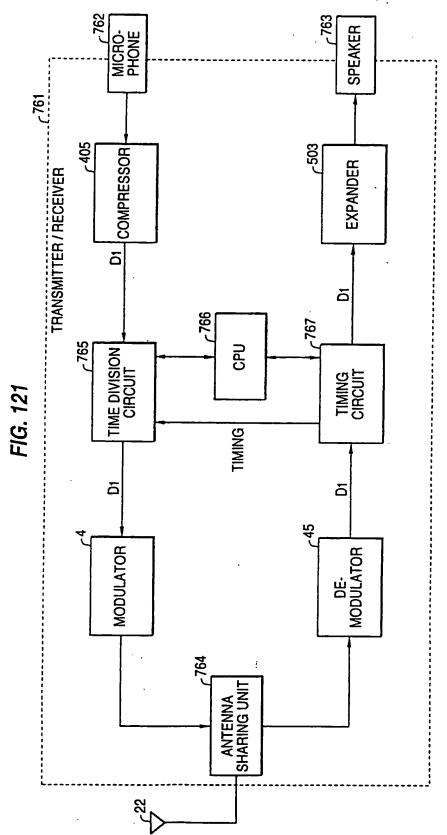


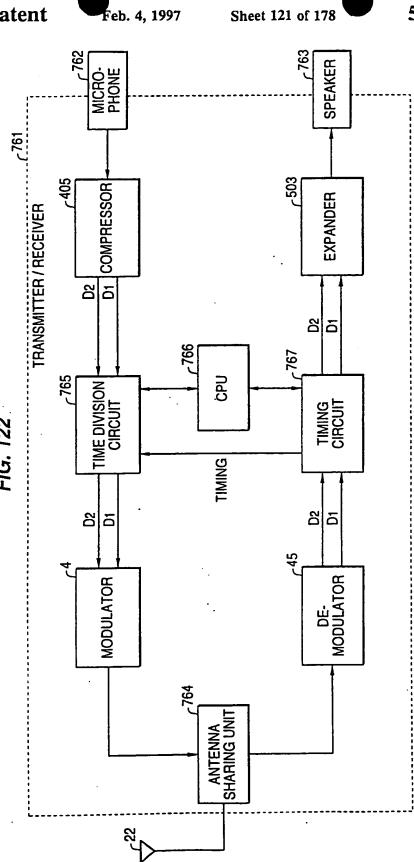


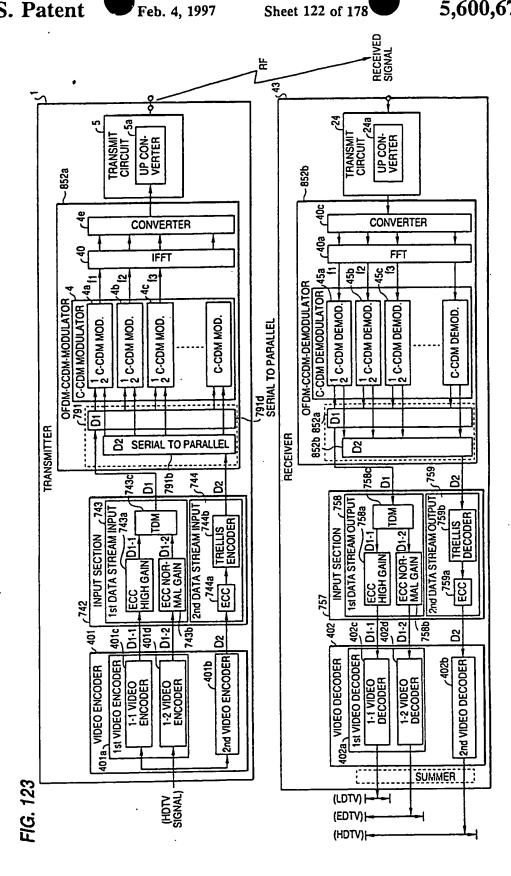


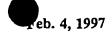


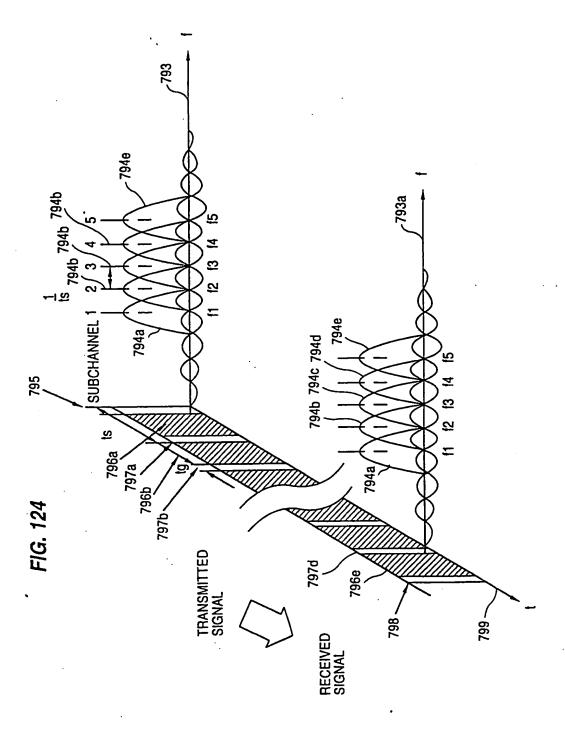


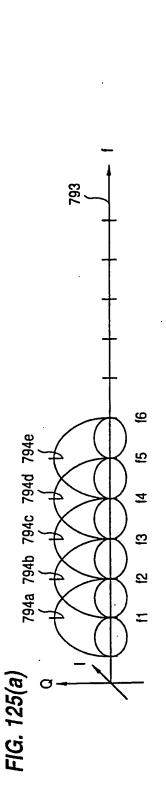


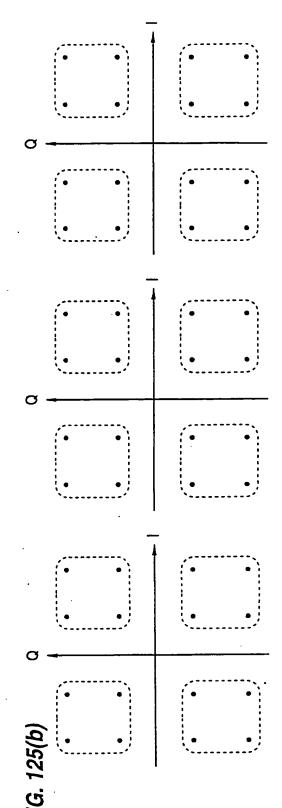




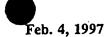


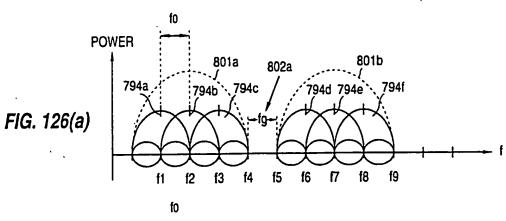


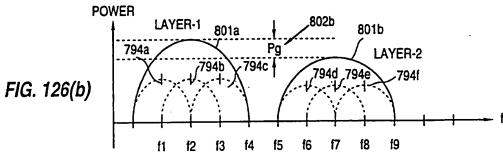


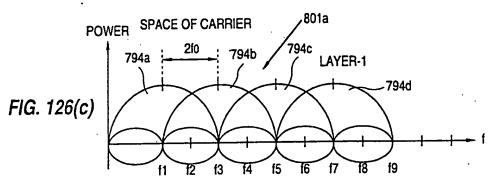


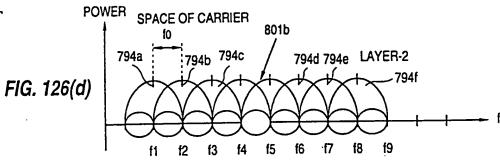
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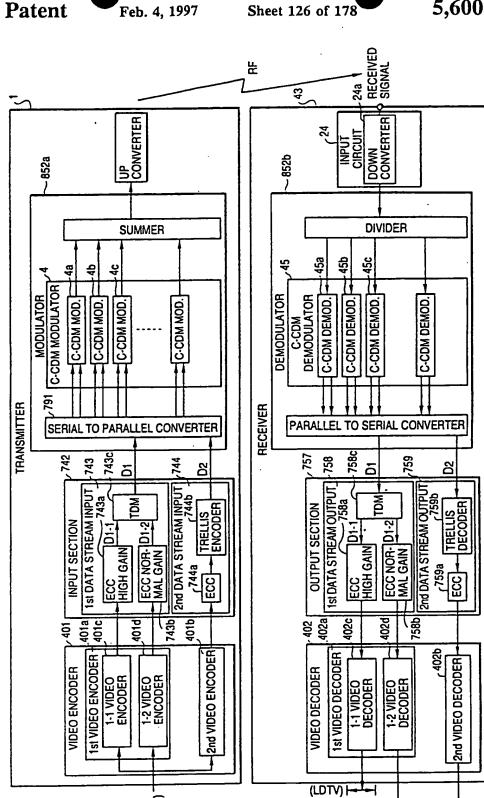












(EDTV) (HDTV)

FIG. 127



FIG. 128(a)

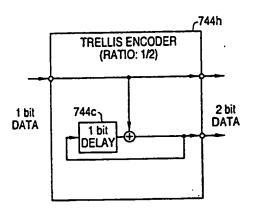


FIG. 128(d)

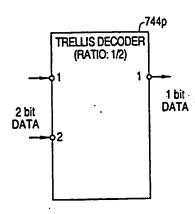


FIG. 128(b)

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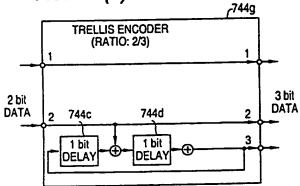


FIG. 128(e)

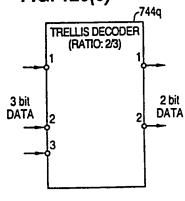


FIG. 128(c)

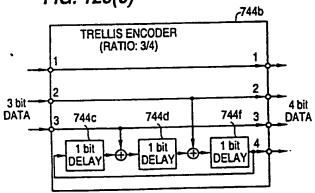
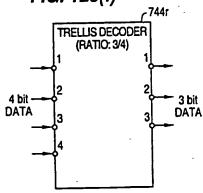
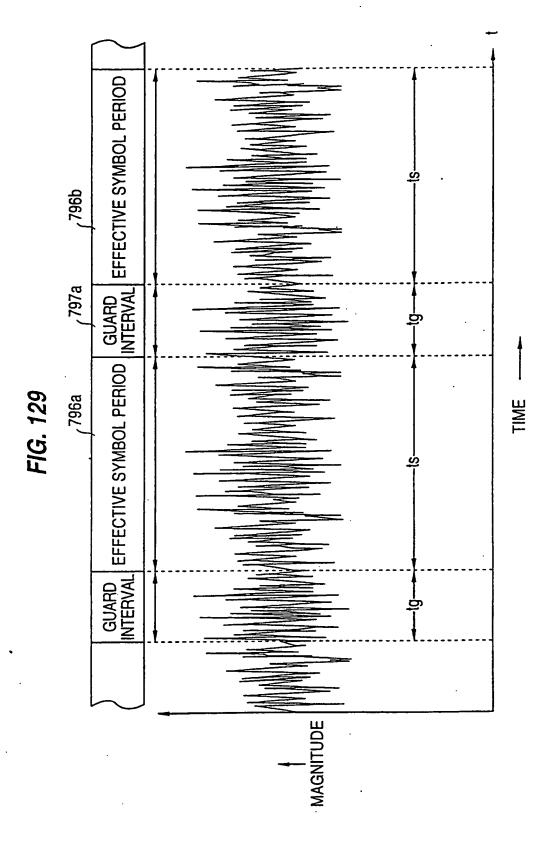
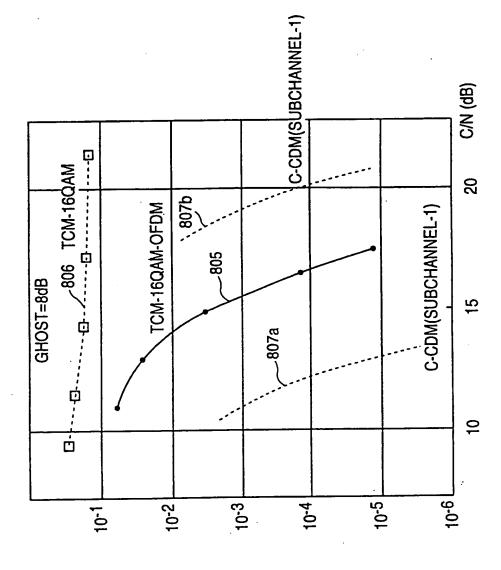


FIG. 128(f)

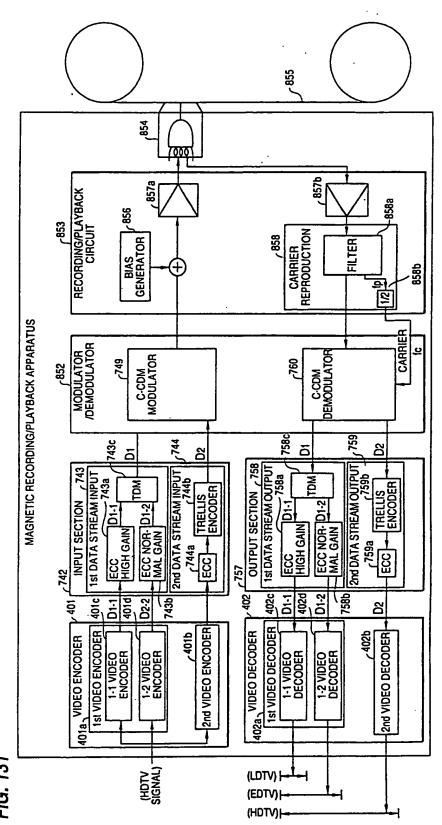




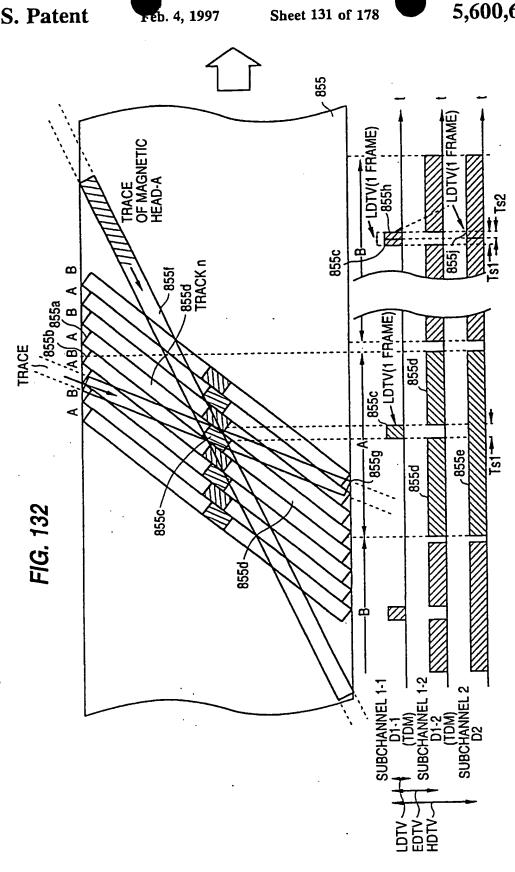
Feb. 4, 1997

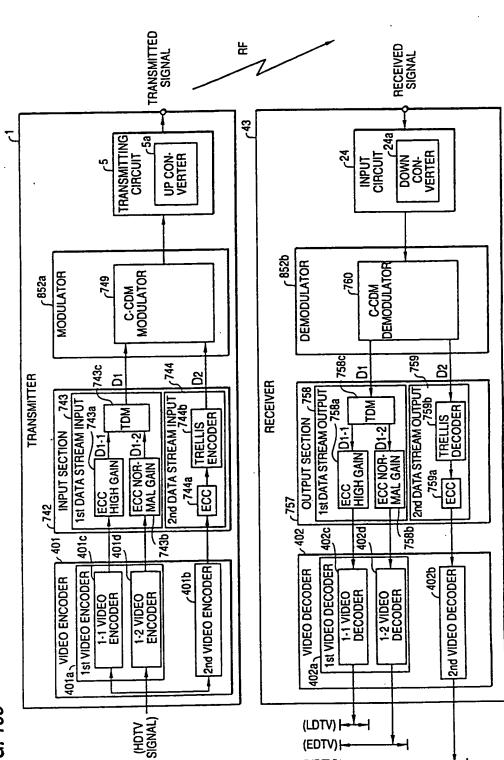


-1G. 130



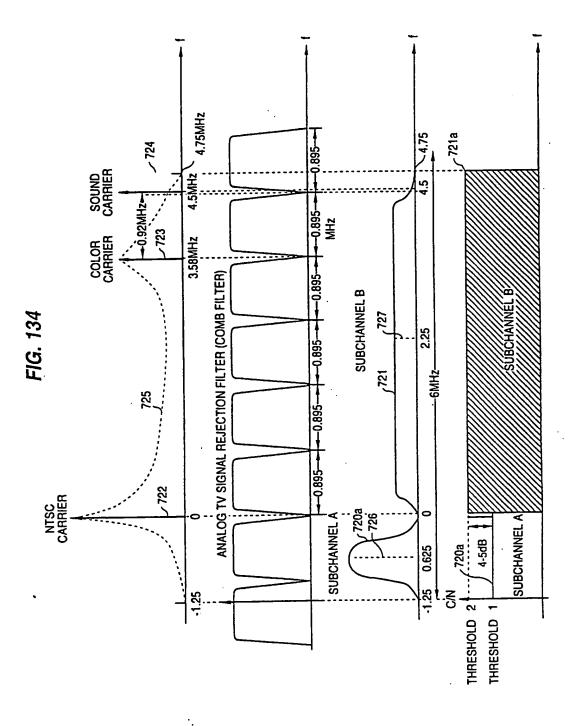


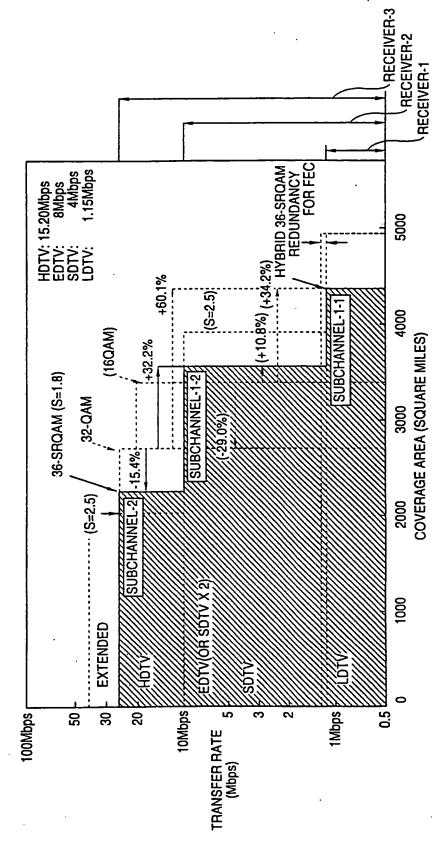




(EDTV) H (HDTV)

FIG. 133





-1G. 135

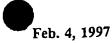
5,600,672

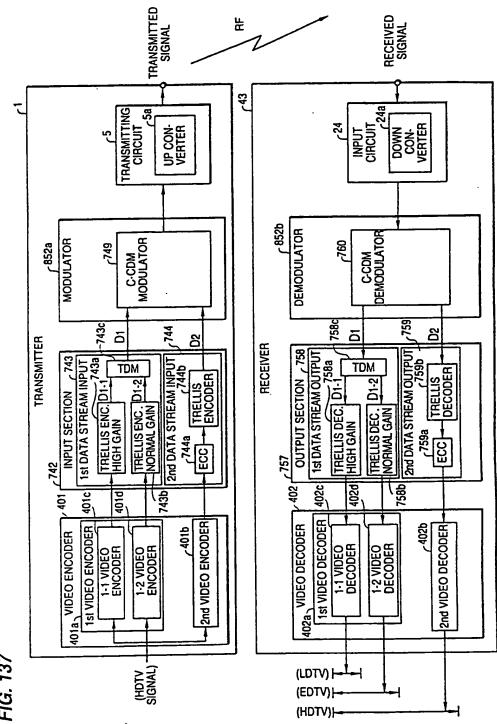


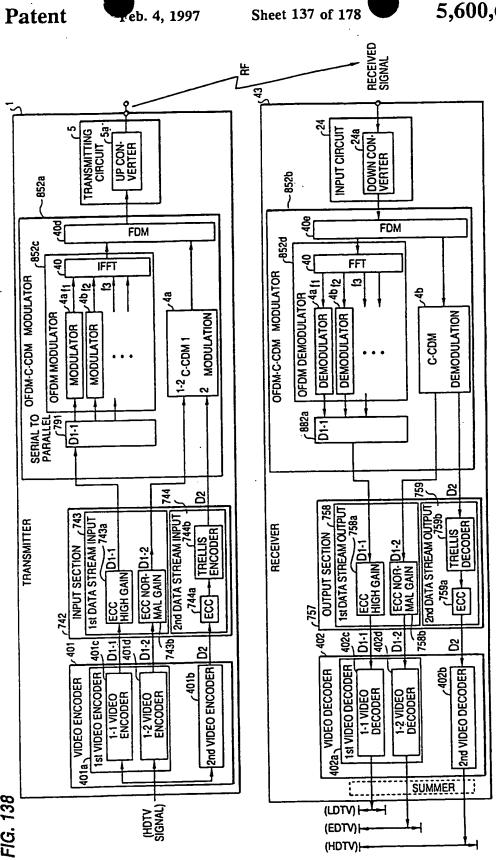


COLOR SOUND CARRIER 3.58 SUBCHANNEL 2////
SUBCHANNEL 1-2 SUBCHANNEL 1-1 fc=1.75 --- 6MHz----5.5MHz-1.25 1.0 THRESHOLD 2 THRESHOLD 1.2 THRESHOLD 1-1 MAGNITUDE MAGNITUDE

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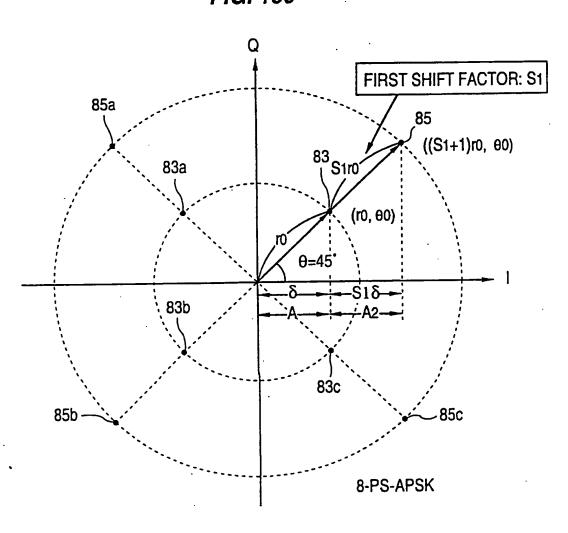






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FIG. 139



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FIG. 140

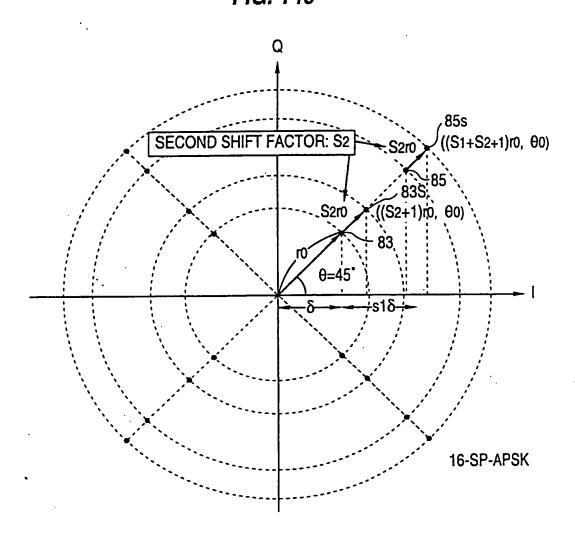


FIG. 141

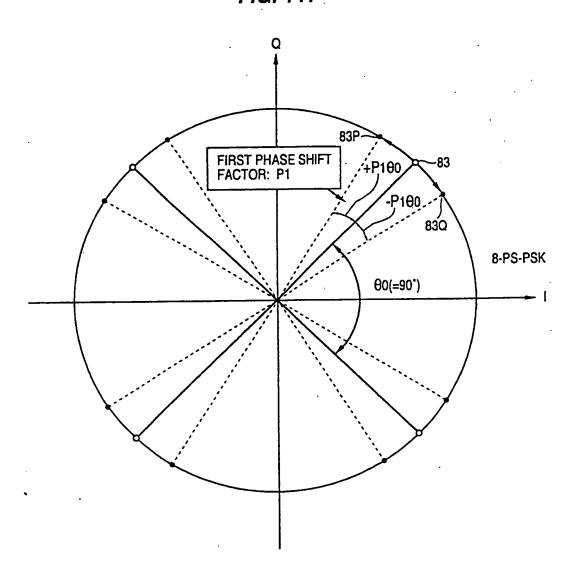
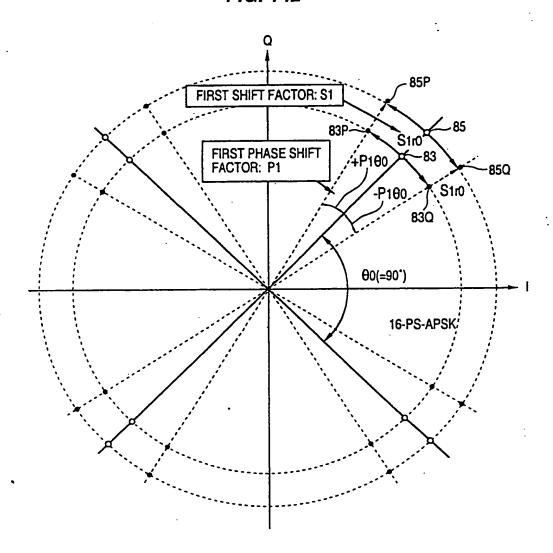
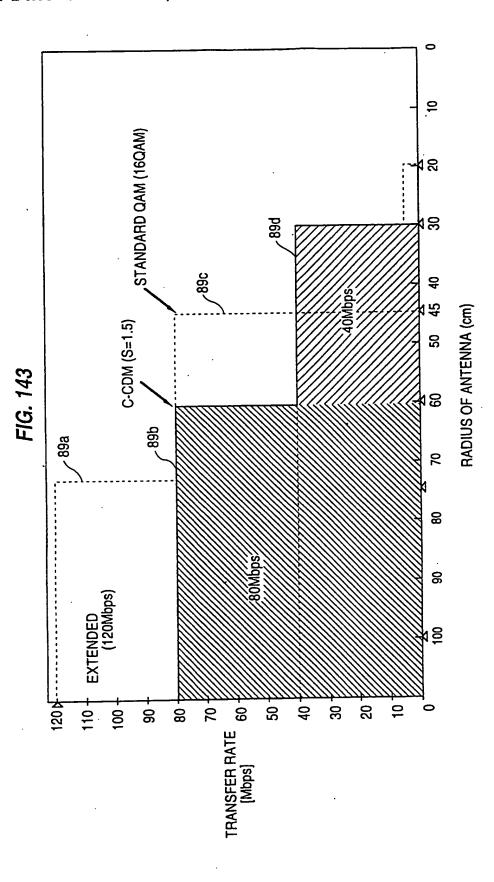
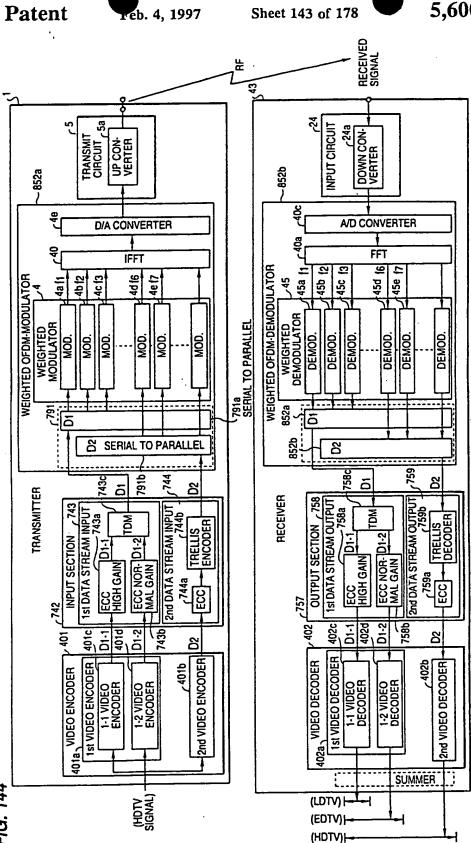


FIG. 142







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FIG. 145(a)

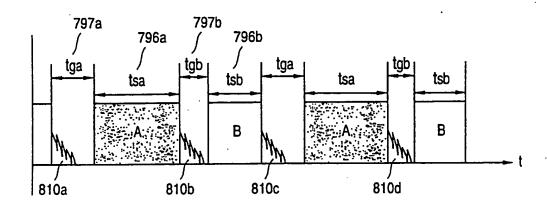
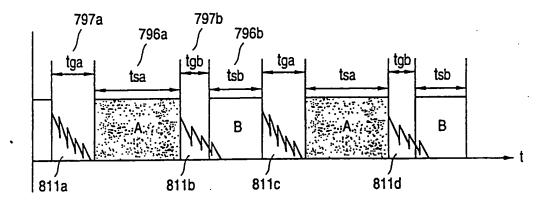
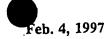
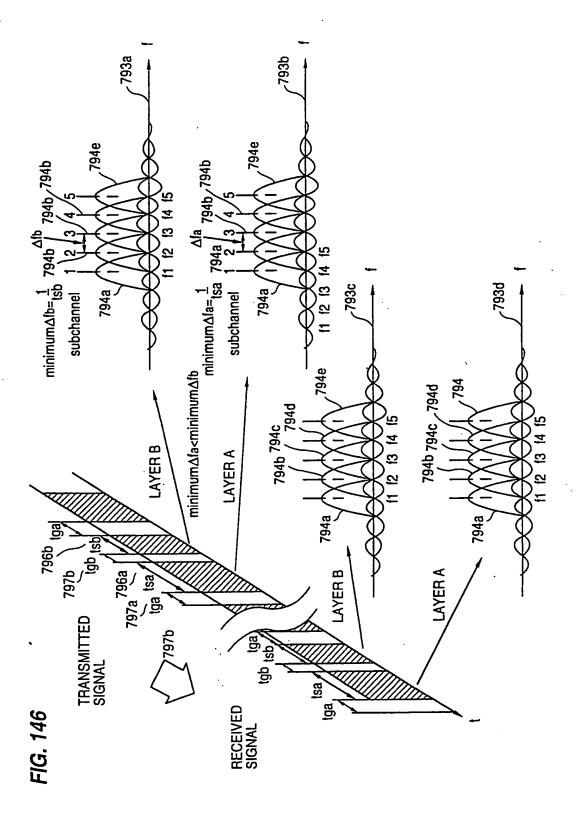
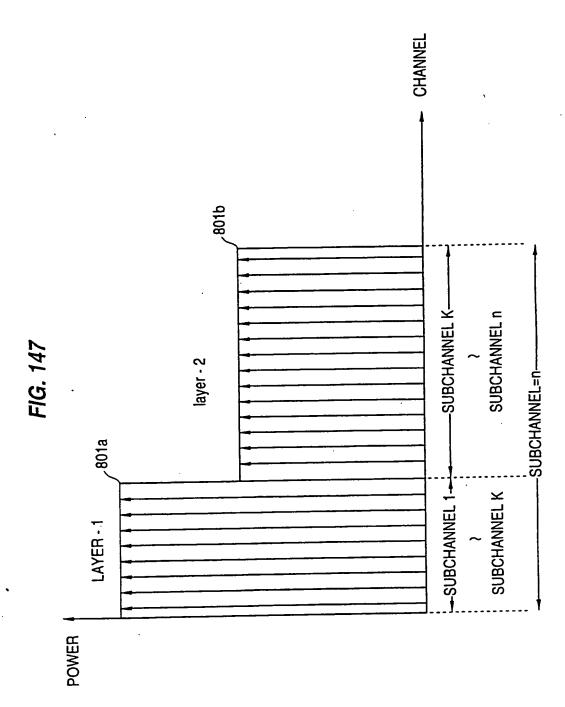


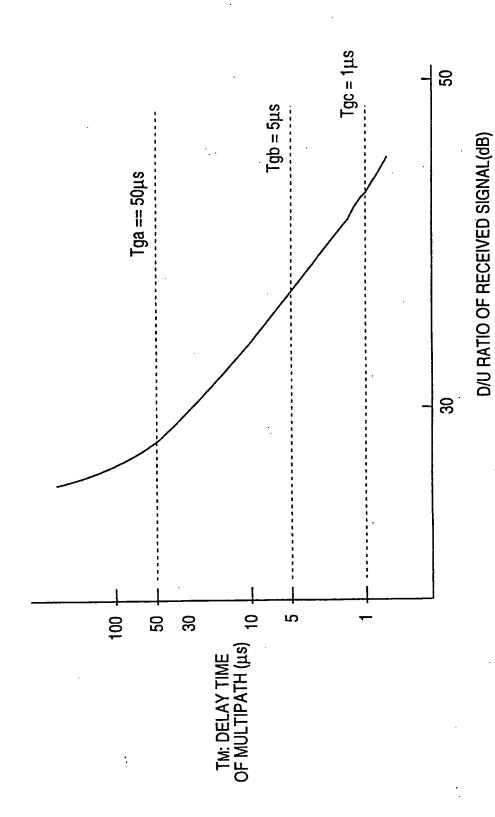
FIG. 145(b)

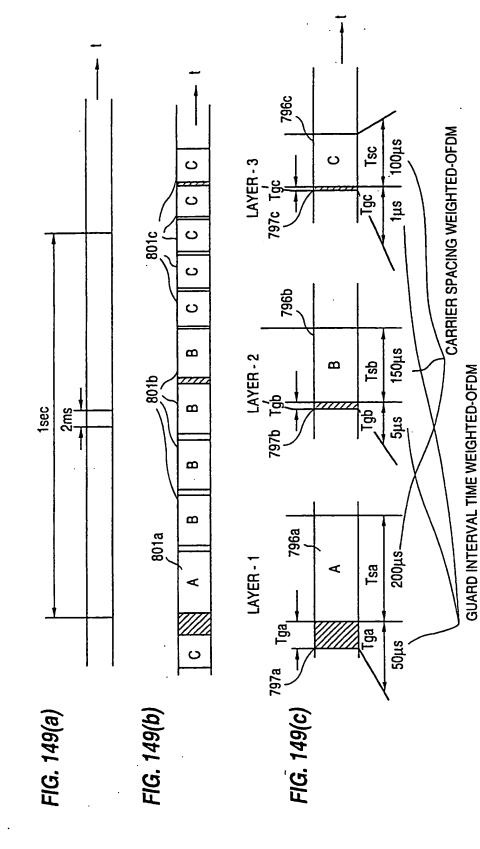






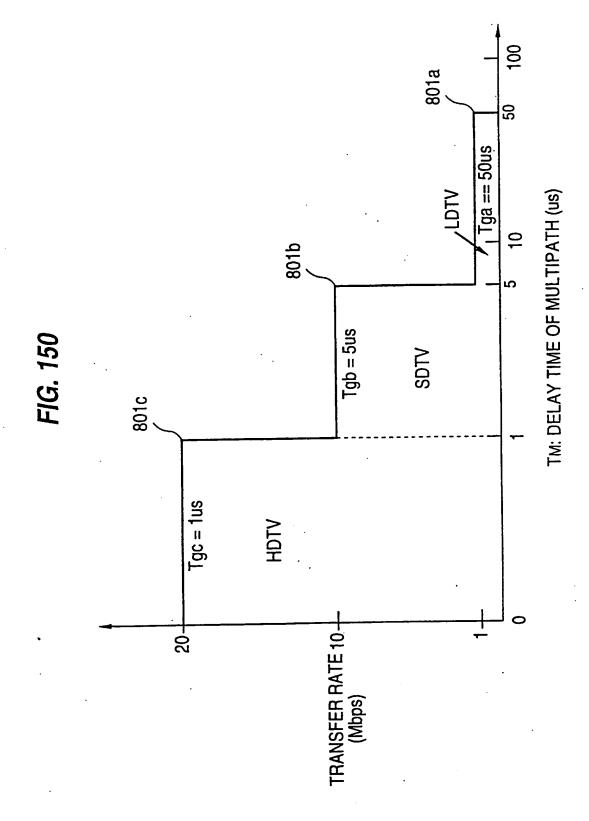




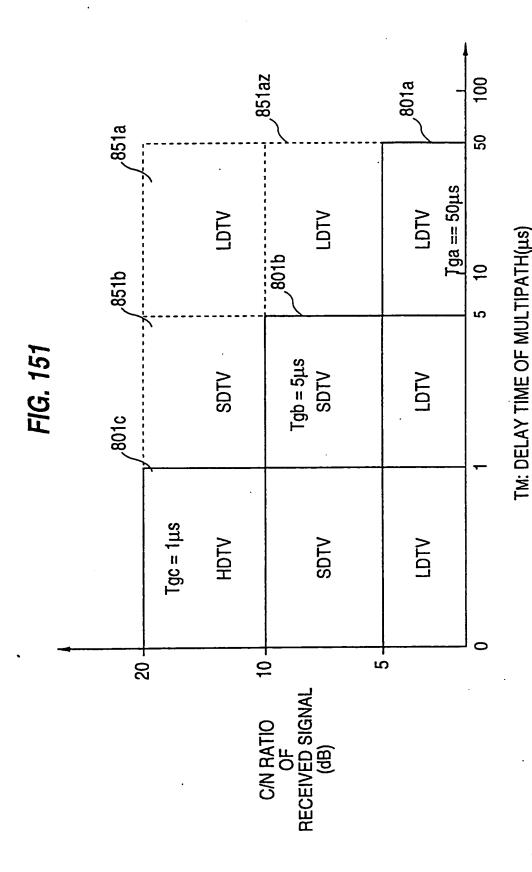


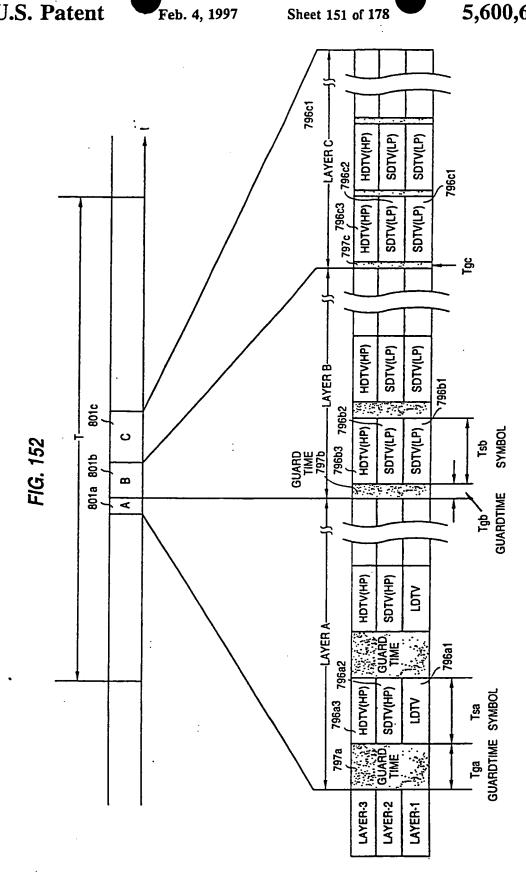
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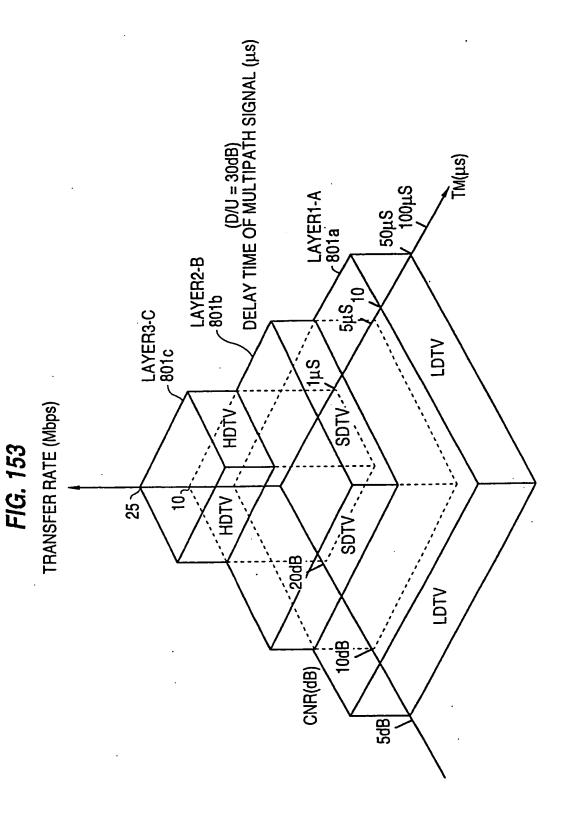
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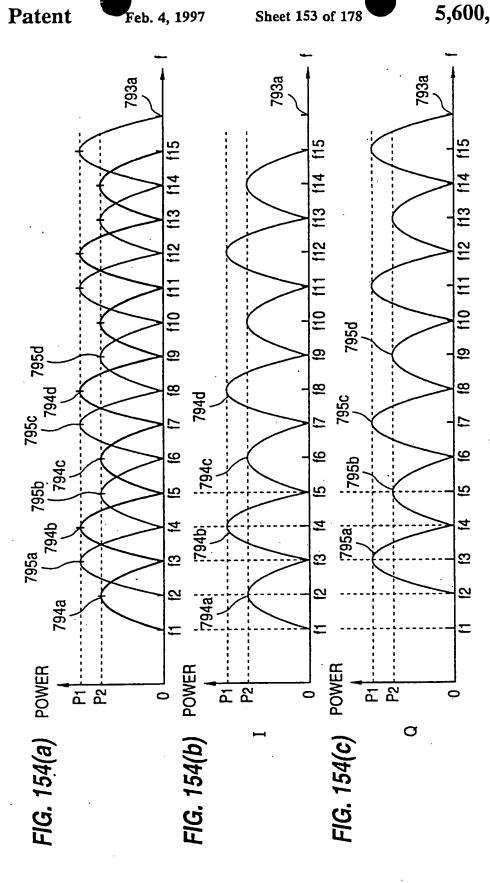


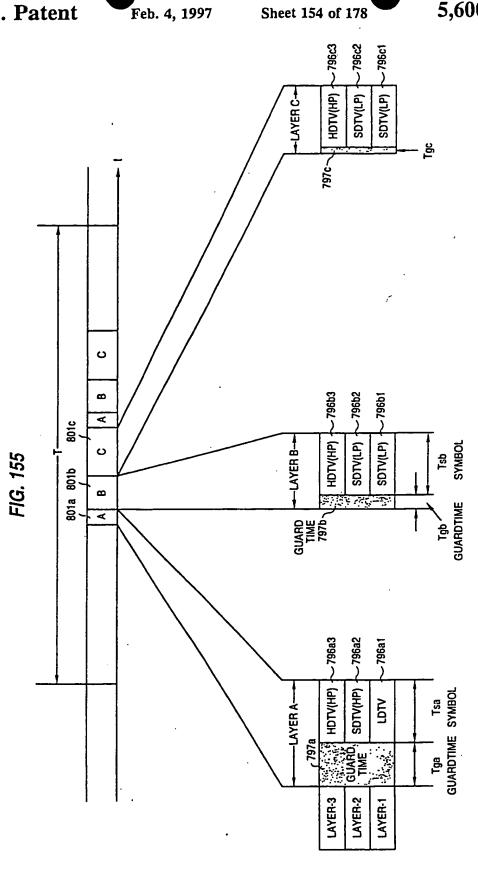
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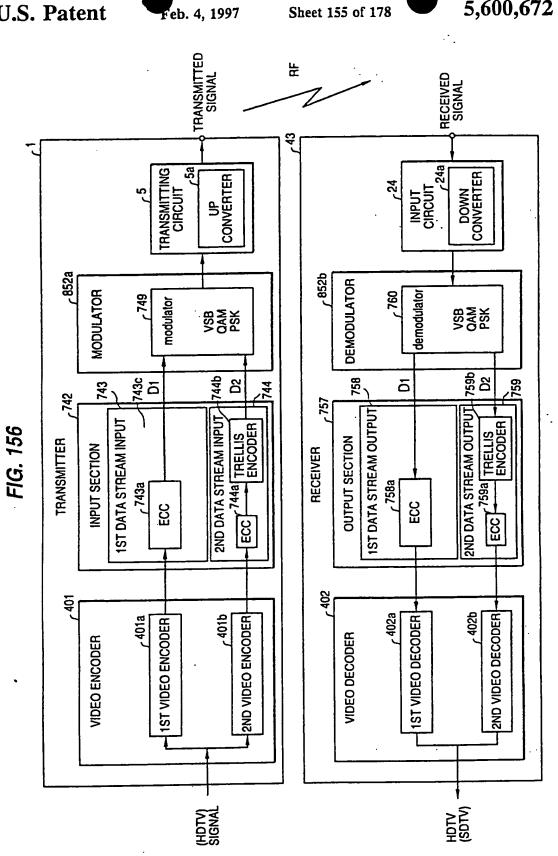




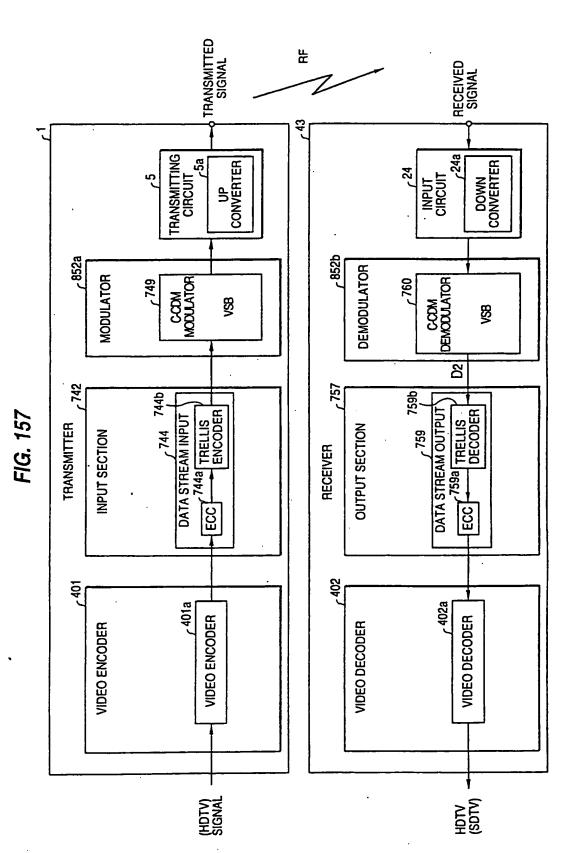


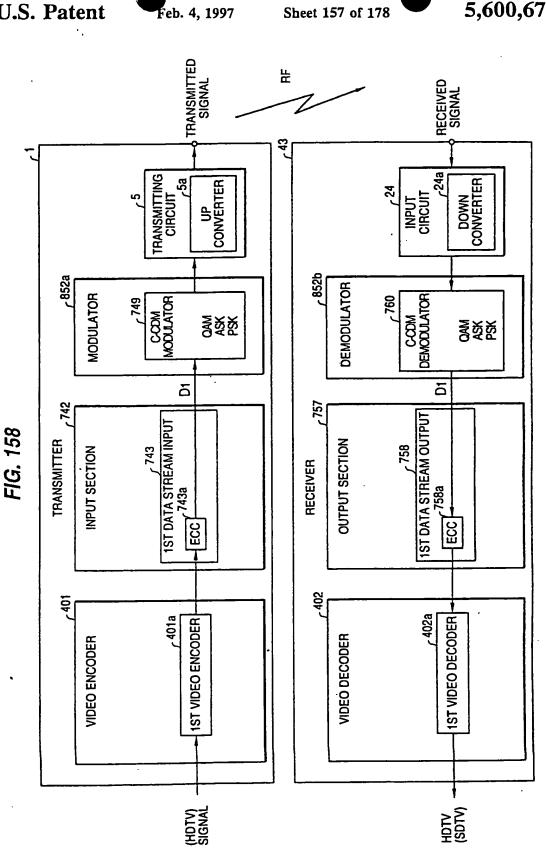


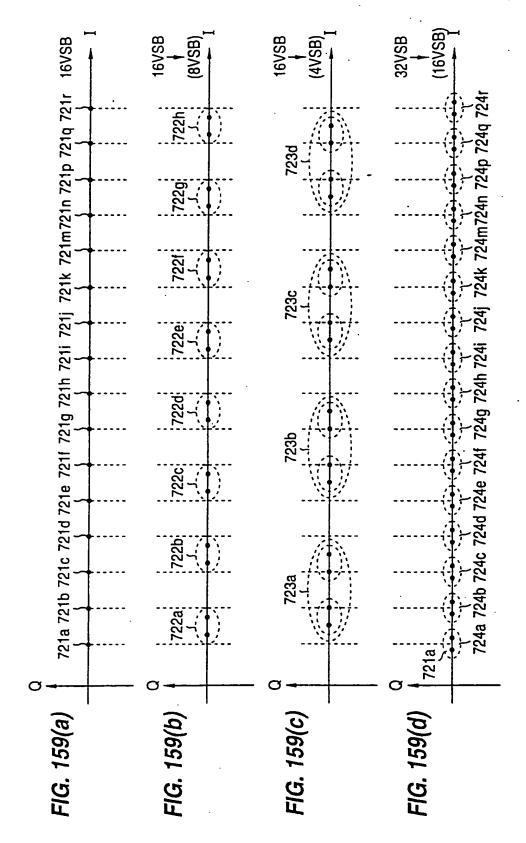




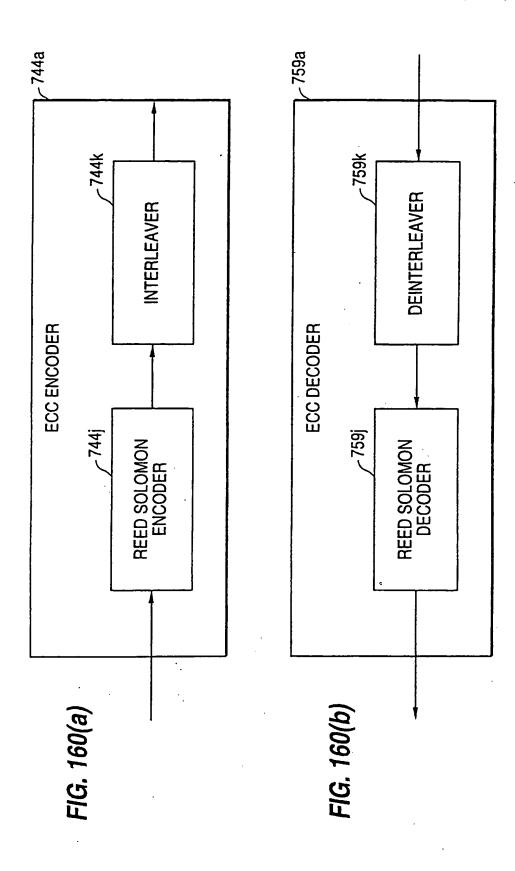
Sheet 156 of 178

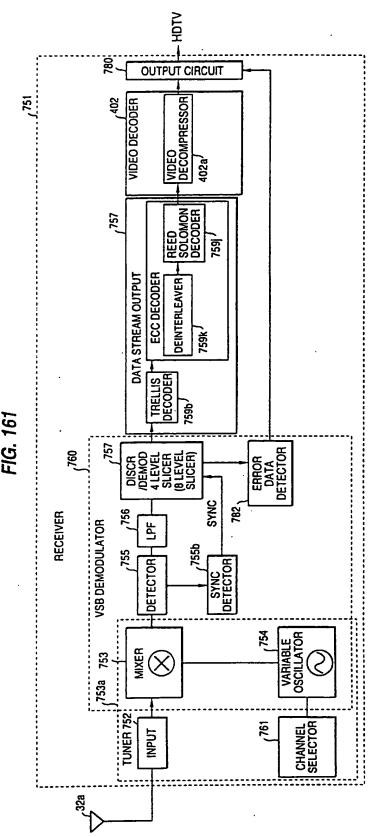


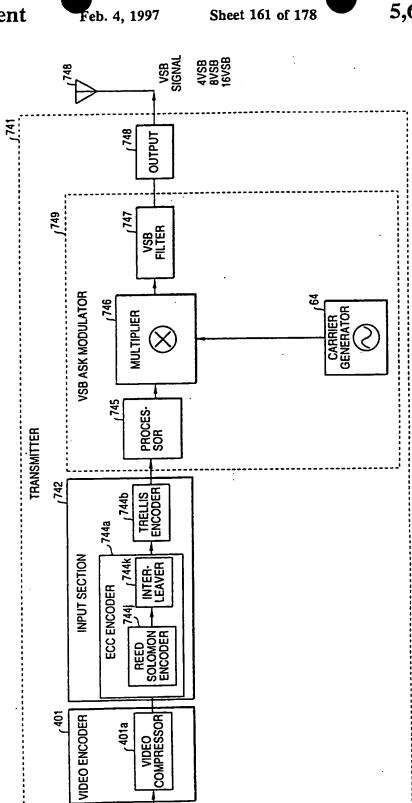




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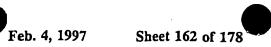


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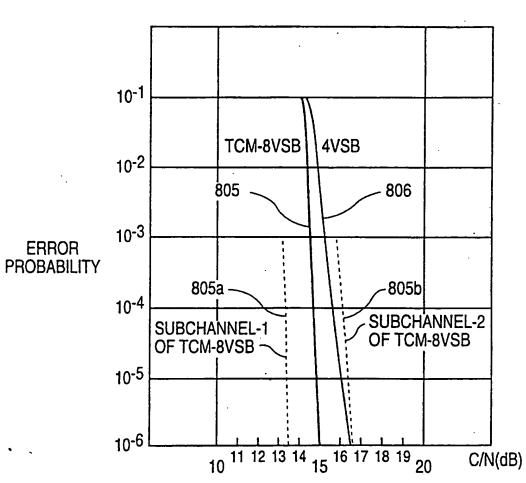
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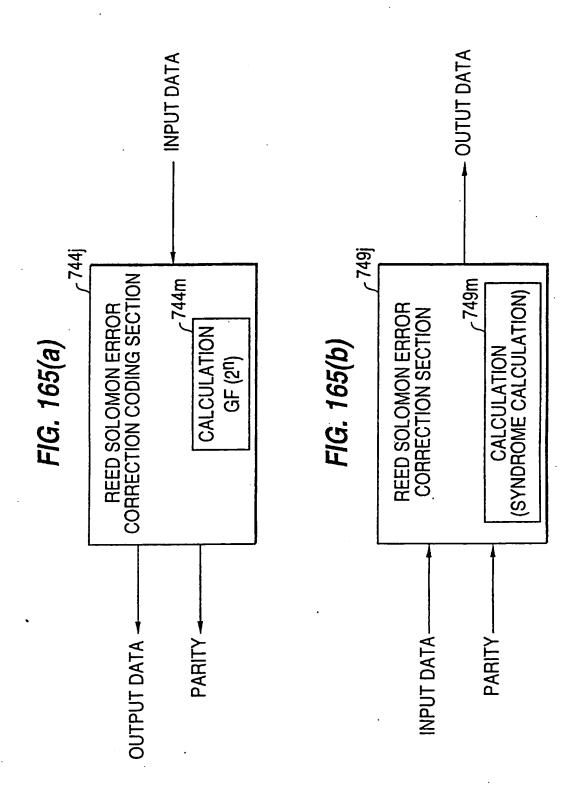
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Sheet 163 of 178

FIG. 164





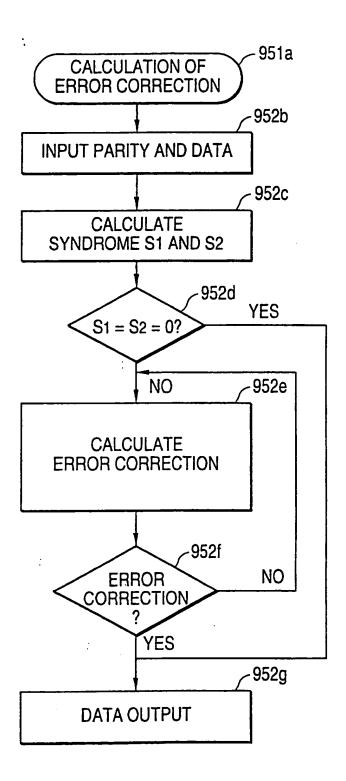


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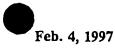
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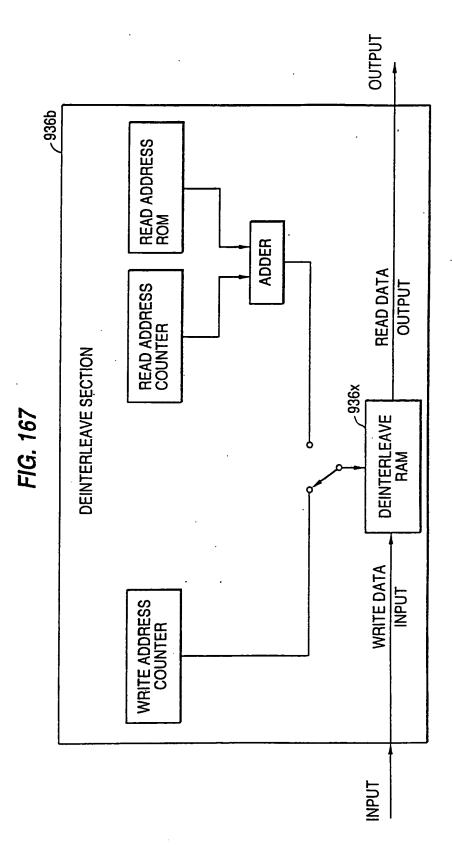
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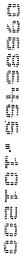


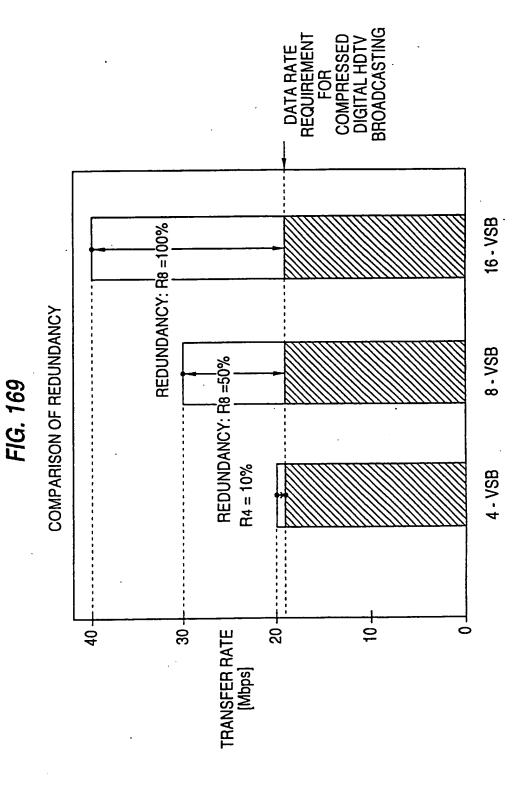
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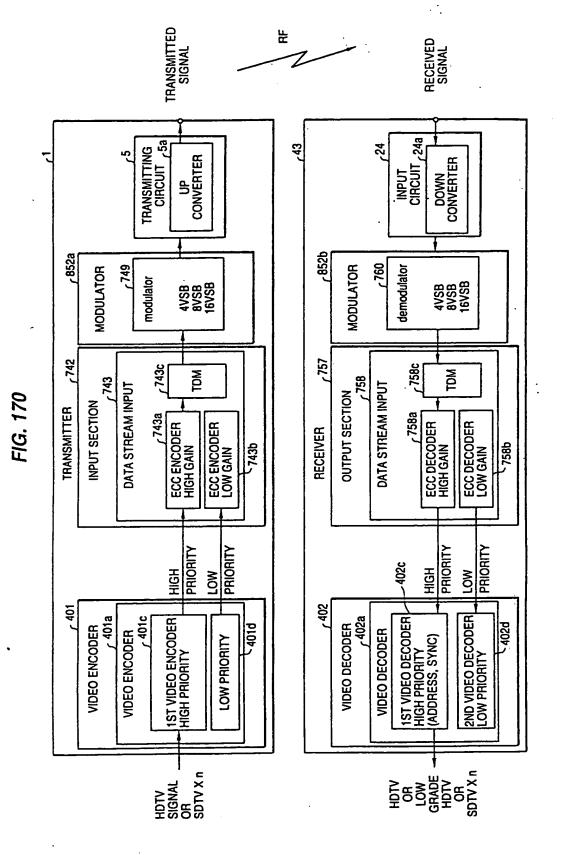




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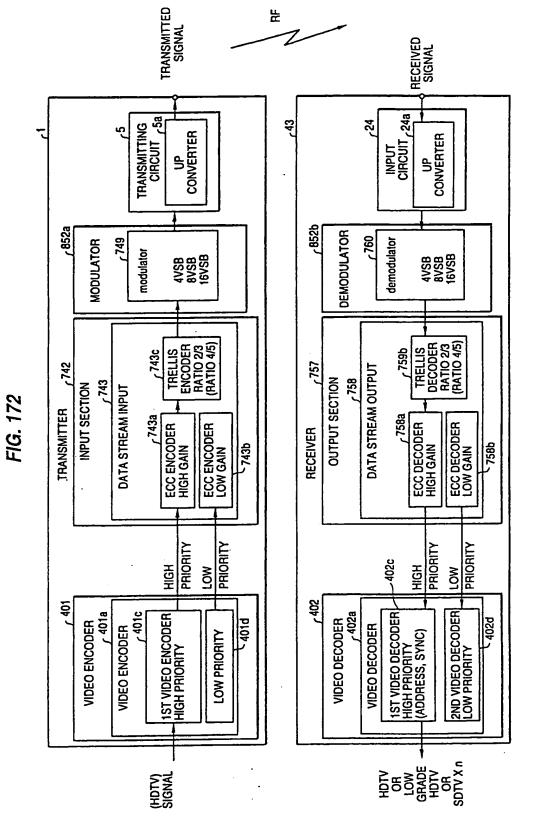
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Ħ TRANSMITTING SIGNAL RECEIVED SIGNAL TRANSMITTING CIRCUIT 5a UP CONVERTER DOWN CONVERTER INPUT CIRCUIT, DEMODULATOR 749 760 demodulator MODULATOR modulator 8VSB (32QAM) 8VSB (32QAM) 20 TRANSMITTER INPUT SECTION 744 RECEIVER OUTPUT SECTION , 759 FIG. 171 DATA STREAM INPUT, 744b TRELLIS ENCODER RATIO 2/3 (RATIO DATA STREAM OUTPUT, 759b TRELLIS DECODER RATIO 2/3 (RATIO 4/5) 742 757 744a ECC ENCODER 759a ECC DECODER f 401a 402a 405 VIDEO ENCODER VIDEO DECODER VIDEO ENCODER VIDEO DECODER VTOH (VTOS)

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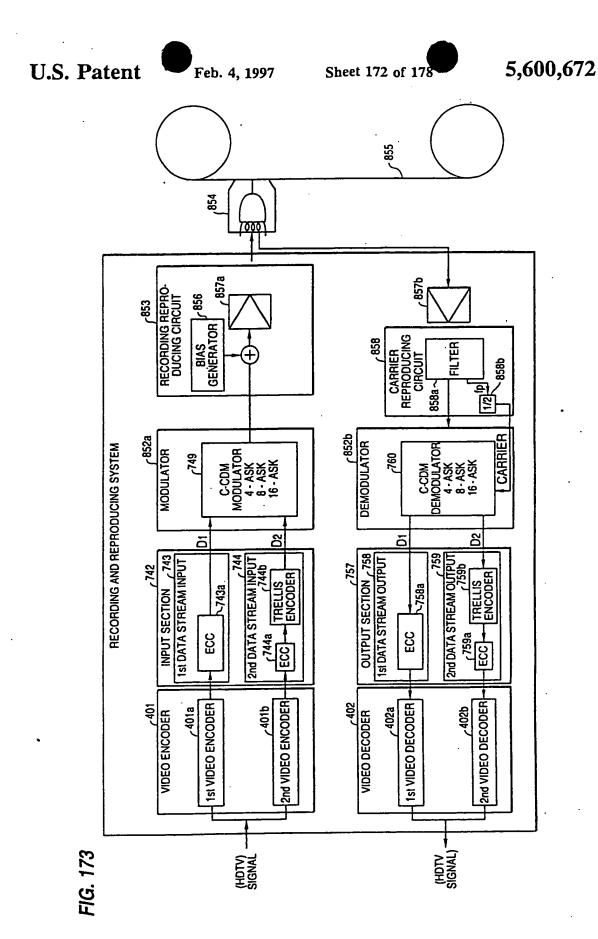


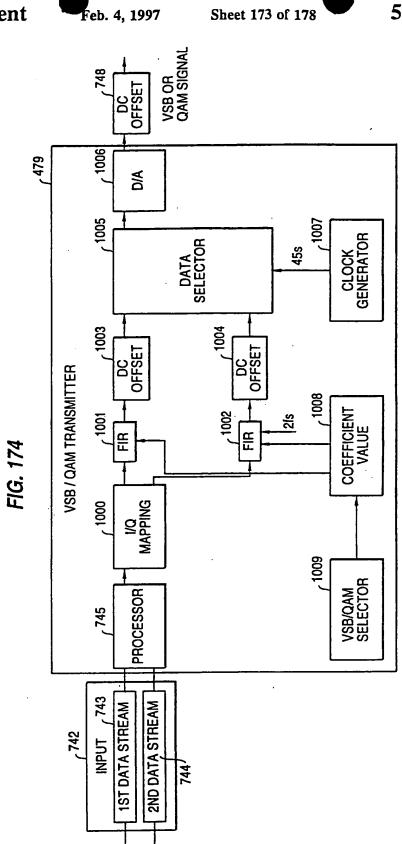
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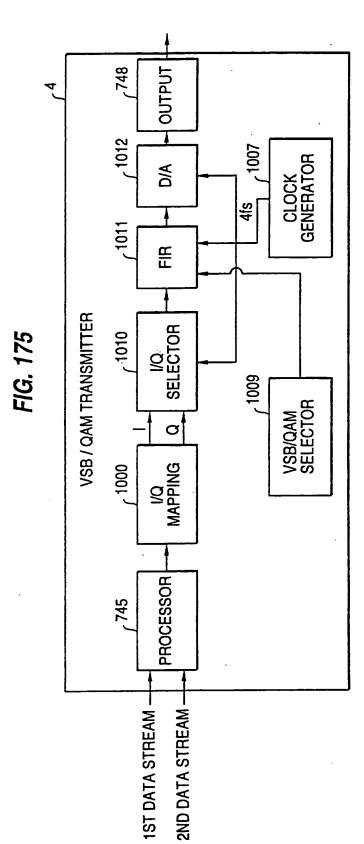
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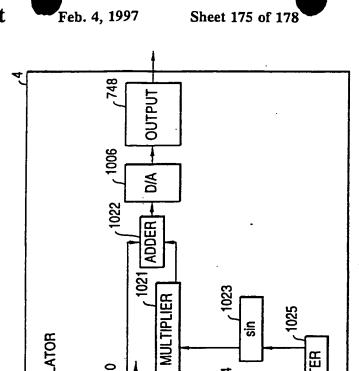
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1ST DATA STREAM --

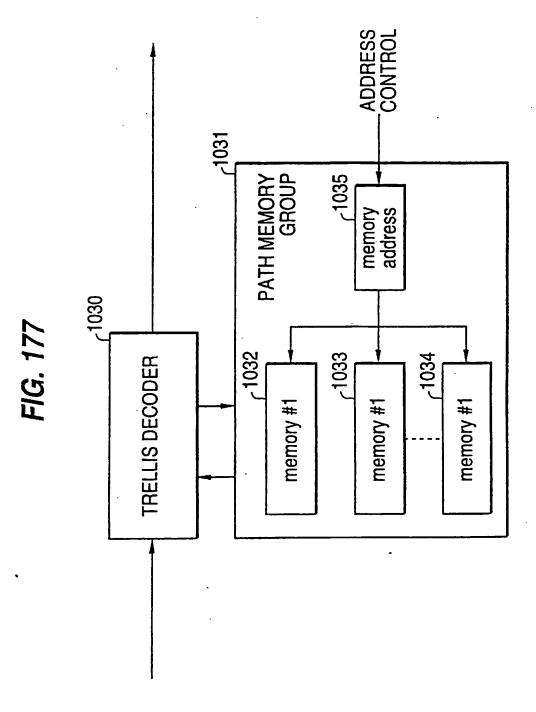
2ND DATA STREAM -



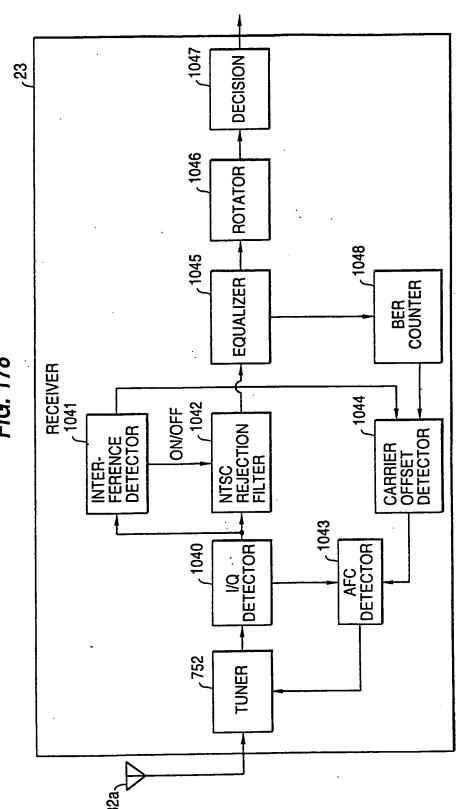
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Feb. 4, 1997

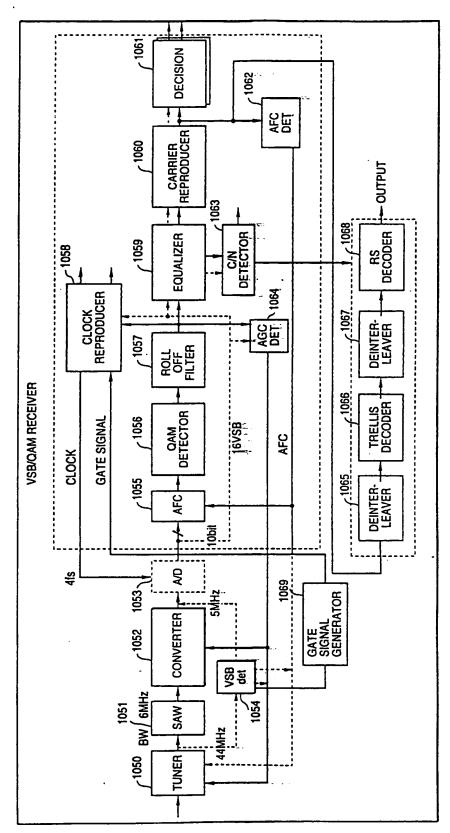


FIG. 179

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